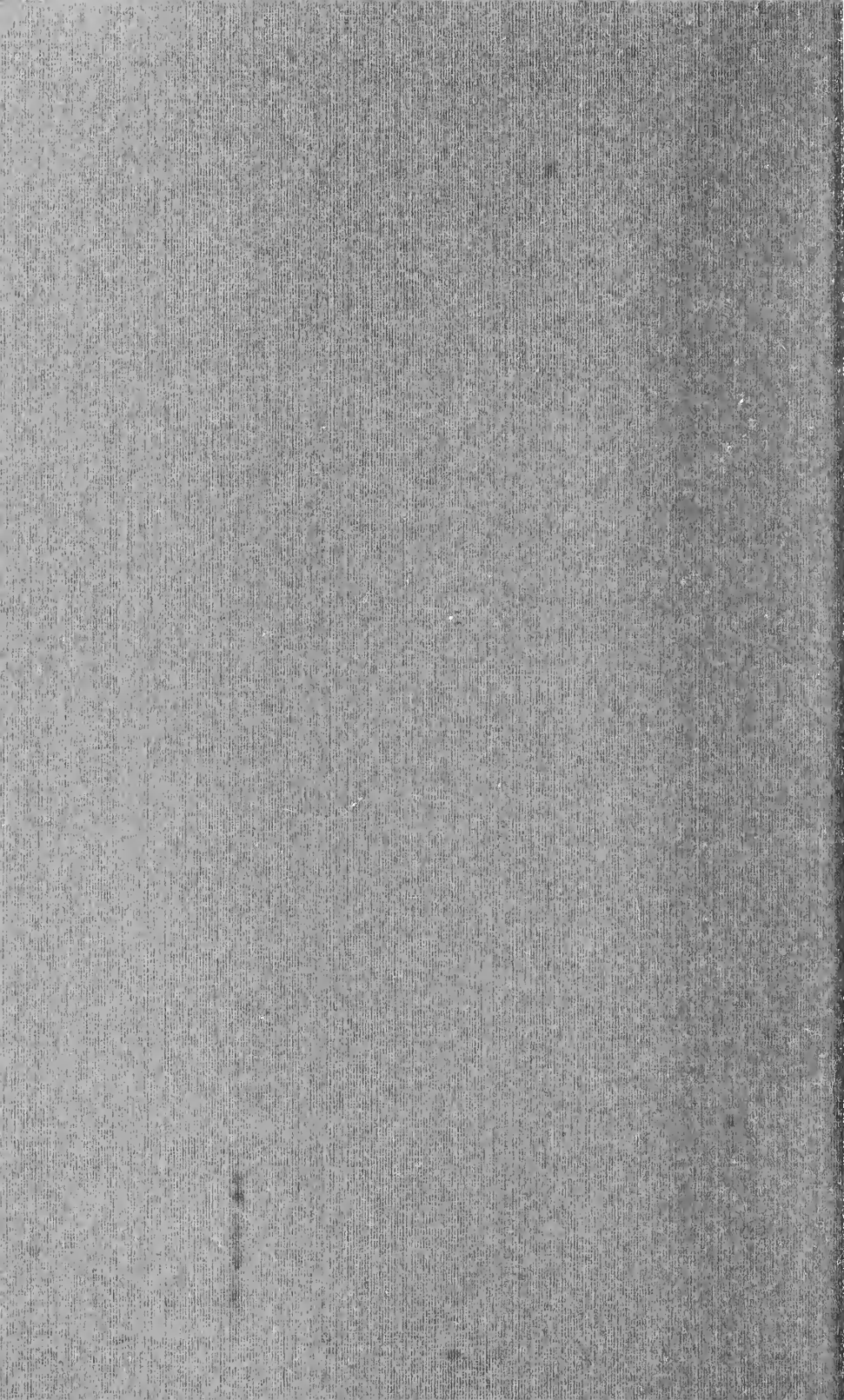


*The Graduate School
of Arts and Sciences*

BRYN MAWR

1985-86



**Bryn Mawr College Calendar
and Catalogue**

**The Graduate School
of Arts and Sciences**

Issue for the Session of 1985-86
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Graduate Work at Bryn Mawr

Graduate students at Bryn Mawr are members of a small scholarly community in which they work as apprentices and junior scholars in close cooperation with faculty. In most departments, programs are designed for each graduate student according to individual interests, preparation, and experience, and a student's program may well cross departmental lines. The work is organized in the form of seminars, graduate courses, and individual supervised study.

Founded in 1885, the Bryn Mawr Graduate School was the first graduate school for women in the United States. Since 1931 both men and women have been admitted. In 1970 the Graduate School of Arts and Sciences and the Graduate School of Social Work and Social Research were organized as two distinct schools. Today, the total student enrollment in the Graduate School of Arts and Sciences is approximately three hundred and fifty.

Students are accepted for graduate work leading to either or both the Master of Arts and Doctor of Philosophy in the following departments or programs:

<i>Anthropology</i>	<i>History</i>
<i>Biochemistry</i>	<i>History of Art</i>
<i>Biology</i>	<i>Human Development</i>
<i>Chemistry</i>	<i>Latin</i>
<i>Classical and Near</i>	<i>Mathematics</i>
<i>Eastern Archaeology</i>	<i>Philosophy</i>
<i>Classical Languages</i>	<i>Physics</i>
<i>Classical Studies</i>	<i>Psychology</i>
<i>English</i>	<i>Russian</i>
<i>French</i>	<i>Sociology</i>
<i>Geology</i>	<i>Spanish</i>
<i>Greek</i>	

Work leading to the degrees of Master of Social Service, Master of Law and Social Policy, and Doctor of Philosophy is available in the Graduate School of Social Work and Social Research.

College Calendar 1985-86

The Graduate School of Arts and Sciences

First Semester 1985-86

- Aug. 20 *Final date for filing completed applications for admission for 1985-86 for all departments except Department of Human Development (February 1 deadline)*
- Aug. 29 *Graduate residence (Glenmede) opens*
- Aug. 30, Sept. 3, 4 *Registration period for Semester I*
- Sept. 3 *Convocation*
Work of the 101st academic year begins at 9 a.m.
- Sept. 28 *German, Italian, Spanish statistics examinations for M.A. and Ph.D. candidates*
- Oct. 5 *French, Greek, Latin, Russian examinations for M.A. and Ph.D. candidates*
- Oct. 11 *Fall break begins after last class*
- Oct. 15 *Ph.D. dissertations in all fields except natural sciences must be submitted to the Office of the Graduate School of Arts and Sciences for the December 1 degree*
- Oct. 16 *Fall break ends at 9 a.m.*
- Nov. 5 *Ph.D. dissertations in the natural sciences must be submitted to the Office of the Graduate School of Arts and Sciences for the December 1 degree*
- Nov. 25 *Last day for final Ph.D. oral examinations for the December 1 degree*
- Nov. 27 *Perfect copies of all dissertations must be deposited in the Graduate Office for the December 1 degree*
- Nov. 27 *Thanksgiving holiday begins after last class*
- Dec. 2 *Thanksgiving holiday ends at 9 a.m.*
- Dec. 10 *Last day of classes, Semester I*
- Dec. 10, 11, 12 *Registration period for Semester II*
- Dec. 20 *Winter vacation begins*

Second Semester 1985-86

- Jan. 10 *Final date for filing completed applications for admission for Semester II*
- Jan. 20 *Convocation*
Work of Semester II begins at 9:00 a.m.

- Jan. 25 *Final date for foreign students to file completed applications for financial aid and awards for 1986-87 and for Special Foreign Language Fellowship applications (new and continuing students)*
- Jan. 27 *Application for M.A. candidacy due in the Office of the Graduate School of Arts and Sciences*
- Feb. 1 *Final date for all applications for financial aid for 1986-87 (new and continuing students)*
- Feb. 1 *Final date for filing completed applications for admission in the Department of Human Development for 1986-87*
- Feb. 22 *French, Greek, Latin, Russian examinations for M.A. and Ph.D. candidates*
- Mar. 1 *German, Italian, Spanish, statistics examinations for M.A. and Ph.D. candidates*
- Mar. 7 *Spring vacation begins after last class*
- Mar. 17 *Spring vacation ends at 9 a.m.*
- Mar. 18 *Ph.D. dissertations in all fields except natural sciences must be submitted to the Office of the Graduate School of Arts and Sciences for the May 1986 degree*
- Apr. 7 *Ph.D. dissertations in the natural sciences must be submitted to the Office of the Graduate School of Arts and Sciences for the May 1986 degree*
- Apr. 18 *M.A. theses due for candidates away from Bryn Mawr (Candidates at Bryn Mawr should consult their department chairmen.)*
- Apr. 18 *Final date for Ph.D. preliminary examinations for 1985-86 academic year*
- May 2 *Last day of classes*
- May 4 *Last date for final Ph.D. oral examinations for the May 1986 degree*
- May 12 *Last date for final written M.A. examinations for the May 1986 degree*
- May 14 *Perfect copies of all dissertations must be deposited in the Graduate Office for the May 1986 degree*
- May 18 *Conferring of degrees and close of 101st academic year*
- June 1 *Deadline for applications for National Direct Student Loans for the 1986-87 academic year*
- Aug. 20 *Final date for filing completed applications for admission for 1986-87 for all departments except Department of Human Development (February 1 deadline)*

College Calendar 1986-87

The Graduate School of Arts and Sciences

First Semester 1986-87

- Aug. 29, Sept. 2, 3 *Registration period for Semester I*
Sept. 2 *Work of the 102nd academic year begins at 9 a.m.*
Oct. 10 *Fall break begins after last class*
Oct. 15 *Fall break ends at 9 a.m.*
Nov. 26 *Thanksgiving holiday begins after last class*
Dec. 1 *Thanksgiving holiday ends at 9 a.m.*
Dec. 9, 10, 11, *Registration for Semester II*
Dec. 19 *Winter vacation begins*

Second Semester 1986-87

- Jan. 19 *Work of Semester II begins at 9 a.m.*
Mar. 6 *Spring vacation begins after last class*
Mar. 16 *Spring vacation ends at 9 a.m.*
May 1 *Last day of classes*
May 17 *Commencement*

Resources for Graduate Work at Bryn Mawr

The Mariam Coffin Canaday Library and the six auxiliary libraries of Bryn Mawr College, including the Art and Archaeology Library in the M. Carey Thomas Library, contain more than 760,000 books, documents and microforms, and regularly receive more than 2500 periodicals as well as many scholarly series. The Library is open throughout the year with a liberal schedule of hours. Books are readily accessible on open stacks and in study rooms; individual carrels are available for advanced students.

The John D. Gordan Reference Center provides a focus for reference books and services. In its card catalogue, the main entry cards of the Haverford College Library join those of the Bryn Mawr Library, thus bringing more than a million entries into one file. The Library is a member of the Pennsylvania Area Library Network (PALINET) and holds, with Haverford and Swarthmore Colleges, the microfilm of the Union Library Catalogue of Pennsylvania, which locates approximately 7,200,000 volumes in the Philadelphia area and in the state, including the libraries of the American Philosophical Society, the Library Company of Philadelphia, the Historical Society of Pennsylvania, the Academy of Natural Sciences, the Free Library of Philadelphia, the Franklin Institute, the College of Physicians, the Rosenbach Foundation, the University of Pennsylvania, and Temple University. In addition, through PALINET, the Library has access to the OCLC data bank of more than 12,000,000 titles catalogued for libraries throughout the United States. The Library also began dial-access bibliographic research services in 1979.

The Rare Book Room houses the Marjorie Walter Goodhart Medieval Library of incunabula and medieval manuscripts. Important and extensive collections of early material on Latin America, Africa, and Asia are to be found in the Dillingham, McBride, and Plass Collections. The Castle and Adelman Collections expand the opportunities for the study of the graphic book-arts. The Adelman Collection also substantially increases the Library's holdings of literary and related manuscripts. The Archives, including the papers of M. Carey Thomas, are a valuable source and provide a focus for the history of women and women's education. In addition to these special collections are numerous other rare books and manuscripts.

Bryn Mawr has a study collection of archaeological and ethnological materials which is used for research by graduate and undergraduate students. The Ella Riegel Museum of Classical Archaeology contains examples of the Greek and Roman arts, especially vases, and a small group of pre-classical antiquities. It includes the classical Greek coins assembled by Elisabeth Washburn King and the Aline Abaecherli Boyce Collection of Roman Republican silver coins as well as the Densmore Curtis Collection presented by Clarissa Dryden. Professor Hetty Goldman donated an extensive series of pottery samples from the excavations at Tarsus in Cilicia. Old World Paleolithic, Neolithic, Eastern Woodland, South-western, Middle Mississippian, and Mexican antiquities are represented at Bryn Mawr and the Ward Canaday collection provides outstanding examples of most of the known ceramic and textile traditions of Peru.

In addition, students in archaeology and history of art use the resources of the Philadelphia area: the Philadelphia Museum of Art, the Pennsylvania Academy of the Fine Arts, the Barnes Foundation, the Rodin Museum, the Rosenbach Museum, and the University Museum of the University of Pennsylvania.

Laboratories and classrooms for anthropology and psychology are in Dalton Hall. Laboratories, classrooms, and libraries for biochemistry, biology, chemistry, geology, mathematics, and physics are located in the three buildings of the Science Center. At the Center are rooms designed for working with radioactive materials, for photomicrography and for glassblowing; there is a machine shop with expert instrument makers in charge and a workshop available to graduate students. In addition to the usual equipment, special apparatus and instruments for particular research projects involving faculty and graduate students continue to be acquired through the Plan for the Coordination of the Sciences (see page 91), through research grants from industry and other private sources, and from government agencies.

The Department of Geology has valuable materials for research, including the extensive working and reference mineral collections of Theodore D. Rand and George Vaux, Jr. The department is also a map repository for the United States Geological Survey and the Defense Mapping Agency.

The College operates a Hewlett Packard 3000 Series III computer, featuring 2 Mbyte memory and 480 Mbytes mass storage, tape drive, and three printers. Interactive computing is supported through thirty or more typewriter-like terminals in four locations on campus. The languages Pascal, "C," and FORTRAN are available, as well as the packages from IMSL (International Mathematical and

Statistical Library), SPSS (Statistical Package for the Social Sciences), BMDP (Biomedical Statistical Package from UCLA), and DYNAMO (Dynamic Modeling language). Both CRT and color pen-and-ink computer graphics are supported. Bryn Mawr is a member of the UniColl Corporation, a regional computer consortium in Philadelphia which provides the resources and technical support of a major facility, offering access to a pair of IBM 370/168 computers and a library of languages and applications.

Admission to the Graduate School of Arts and Sciences

Requirements

Applicants are expected to be graduates of colleges or universities of acknowledged standing. For special requirements set by individual departments, see the departmental listings beginning on page 21.

Procedure

The applicant should write to the Graduate Admissions Office, Graduate School of Arts and Sciences, Bryn Mawr College, Bryn Mawr, Pennsylvania 19010, for application forms, indicating the field of special interest. The application itself must be supported by official transcripts of the student's complete academic record and by letters from professors with whom he or she has done the major work.

Although an interview is not required, candidates are strongly encouraged to come in person to discuss their plans and the Bryn Mawr program. The applicant should write directly to the chairman of the department to arrange a meeting.

No application will be considered until all the necessary documents have been received. Students are accepted for either full-time or part-time work. For citizens of the United States and Canada and for permanent residents or foreign students presently in the United States, there is an application fee of \$30 which is not refundable.

Graduate Record Examinations

Applicants must take the Graduate Record Examination Aptitude Test and, in certain instances, the Advanced Tests in their field of special interest. See the departmental listings. Inquiries concerning the Graduate Record Examinations and the dates on which they will be given should be addressed to Graduate Record Examination, Educational Testing Service, CN 6000, Princeton, New Jersey 08541-6000 or to Graduate Record Examination, Educational Testing Service, 1947 Center Street, Berkeley, California 94704.

Dates

1. *Citizens of the United States and permanent residents:*

The closing date for applications for admission is August 20, ex-

cept for the Department of Human Development which has a closing date of February 1.

2. *Foreign applicants:*

The closing date for applications for admission is August 20, except for the Department of Human Development which has a closing date of February 1. Applications from individuals whose native language is not English *must* include the scores of the Test of English as a Foreign Language (TOEFL), the Examination of the English Language Institute of the University of Michigan, or another approved language test. Since applications from foreign students desiring financial aid must be completed by January 25, those applicants must arrange to take language tests well before that date. For information concerning the TOEFL and the dates on which it is given, write to: TOEFL, Educational Testing Service, Princeton, New Jersey 08541. Foreign applicants desiring financial aid should also arrange to take the Graduate Record Examination no later than October of the application year.

3. *Applicants for admission with financial aid:*

Students wishing to apply for fellowships, scholarships, tuition grants, or other forms of financial aid must present completed applications by the following dates:

Foreign citizens or applicants for Special

Foreign Language Fellowships January 25

All other applications February 1

Note that individuals applying after these deadlines may in some instances be considered for teaching or graduate assistantships, if vacancies occur, but all other opportunities are closed on the dates indicated.

Also note that all U.S. citizens and permanent residents are required to complete GAPS FAS forms in connection with their applications for financial aid, and that these forms must be submitted to GAPS FAS, Educational Testing Service, CN6660, Princeton, New Jersey 08541-6660 by January 15 (see page 86).

Admission to Graduate Seminars and Courses

Admission to graduate seminars and courses is under the jurisdiction of the various departments. Students whose preparation is inadequate may be required to enroll as special students to take appropriate undergraduate courses for which no graduate credit is

given. At the end of one or two semesters the department reviews the work of the special student and makes a recommendation to the Dean concerning the student's admission to the regular graduate program.

Requirements for Registration and Degree Candidacy

Registration

All graduate students, after consultation with the chairmen of their departments, must register at the Office of the Graduate School of Arts and Sciences in Thomas each semester during the registration period listed in the College calendar. Changes in registration require the approval of the department chairman and the Dean, and may, in some instances, involve fees or penalty charges (see p. 83). Changes in registration should not be made after the third week of classes in a semester.

Personal registration is an important obligation of the graduate student. Those who fail to register in the stated period will be charged a late registration fee.

Degree Candidacy

Admission to the Graduate School of Arts and Sciences to work toward an M.A. or Ph.D. degree does not automatically confer candidate status. Graduate students formally become candidates for the M.A. or Ph.D. only after they have met departmental requirements and have made formal application for candidacy which has been approved by their department and then by the Council of the Graduate School of Arts and Sciences.

Leaves of Absence

Students wishing to discontinue their graduate work for a period of time should consult their department chairman and notify the Graduate School. There are no leave restrictions except in the case of those who have been formally admitted to candidacy for the Ph.D. It should be noted, however, that all work for the degree of Master of Arts must be completed within a period of five years.

Students who have been formally admitted to candidacy for the degree of Doctor of Philosophy may be granted leave of absence by the Dean of the Graduate School of Arts and Sciences, with the approval of the department, for a semester or a full academic year, and leave may be renewed for an additional period, provided that the total does not exceed two academic years. Leaves of absence exceeding a total of two academic years can be granted to Ph.D. candidates only with the approval of the department, the Dean of the Graduate School of Arts and Sciences, and the Council of the

Graduate School of Arts and Sciences, and will be granted only in the case of exceptional circumstances and demonstrated financial hardship. No fee is required of students granted leaves of absence, but students should recognize that leaves of absence may affect loan repayment obligations.

Note: Students with loans should consult the Financial Aid Office concerning the rules regulating obligations in the case of leave.

Continuing Enrollment

All graduate students, whether or not formally admitted to candidacy for the Ph.D., must register for one or more units of work or enroll under the continuing enrollment plan if they plan to present themselves for College examinations, or to use the College libraries or laboratories, or to consult members of the faculty in relation to work in progress.

Students who have been formally admitted to candidacy for the Ph.D. must, in order to retain their candidacy, register for one or more units of work each semester, or enroll under the continuing enrollment plan, unless granted formal leave.

Enrollment under the continuing enrollment plan does not carry academic credit, but permits the student to be certified as at least a half-time student. Departments must certify annually that students so enrolled are making adequate progress.

Program of Study

The program of study consists of selected seminars, courses, or individual work under the close direction of members of the faculty. At Bryn Mawr College, the program in the Graduate School of Arts and Sciences is defined in terms of academic units. Six academic units constitute a full year's program. A year-long seminar counts as two academic units; a one-semester seminar, or an upper-level undergraduate semester course taken for graduate credit, or a semester of supervised independent work counts as one unit.

A minimum of six academic units at Bryn Mawr is required for the degree of Master of Arts. Candidates for the degree of Doctor of Philosophy must complete a minimum of twelve academic units at Bryn Mawr. Some departments or programs require additional units for the Ph.D.

Active engagement in research and the development of advanced research skills are required for all graduate degrees in Arts and Sciences at Bryn Mawr. For specific requirements in the sciences, see the individual departmental sections.

Prospective students who have already completed an M.A. at another institution should consult the department chairman to ascertain whether or not this will make a difference to their Bryn Mawr program.

Under the Reciprocal Plan, courses at the University of Pennsylvania Graduate School of Arts and Sciences are available to Bryn Mawr graduate students and may be counted toward the Bryn Mawr degree. All matriculated graduate students are eligible. The number of courses which may be taken at the University is limited to the equivalent of two units per year or one-third of a student's program, and no more than one course per semester. The procedure for registration and payment of tuition fees is the same as for students enrolled wholly at Bryn Mawr, with the exception that the student must present a letter of introduction to the Dean of the Graduate School of Arts and Sciences of the University of Pennsylvania when registering there. Ordinarily students are not advised to undertake such work during their first year at Bryn Mawr.

For graduate students in the biological sciences there is, in addition, a Reciprocal Plan with the Medical College of Pennsylvania. See page 28 for a full description.

The Philosophy Consortium provides a Reciprocal Plan for graduate students in philosophy at Bryn Mawr, Temple University, Villanova University, and the University of Pennsylvania. Bryn Mawr graduate students in philosophy may take courses at any of the other three institutions, subject only to certain limitations.

In many of the graduate programs in the humanities and social sciences at Bryn Mawr, there is particular faculty interest in theories of interpretation and also in issues related to gender.

Grading System

Students in the Graduate School of Arts and Sciences at Bryn Mawr do not receive letter grades. At the completion of a seminar or unit of graduate work, the student's work is graded Satisfactory (S) or Unsatisfactory (U), and the instructor writes a narrative evaluation of the student's performance and ability to proceed with graduate work. These are kept on file in the Graduate School but are available at any time for the student's inspection.

In the case of work still incomplete at the conclusion of a unit, the instructor shall set a deadline for the completion of that work which can be no later than thirty days after the beginning of the next fall semester. Work still incomplete after the deadline will be graded permanently incomplete.

Summer Work

Bryn Mawr has no regular graduate summer session on campus. The science departments, however, usually invite graduate students to continue with research projects over the summer and provide a modest stipend.

Summer Institutes Abroad

Bryn Mawr College offers summer programs of intensive training in language and significant aspects of culture in four locations abroad. Certain courses carry graduate credit.

Institut d'Etudes Françaises d'Avignon

For information write to Professor Michel Guggenheim, Department of French, Bryn Mawr College.

Centro de Estudios Hispánicos (Madrid)

For information write to Professor Eleanor Paucker, Department of Spanish, Bryn Mawr College.

Pushkin Institute of the Russian Language (Moscow)

For information write to Professor Dan E. Davidson, Department of Russian, Bryn Mawr College.

Bryn Mawr College/University of Pennsylvania Summer Institute in Florence

For information write to Director, Florence Institute, Department of Italian, Bryn Mawr College.

Degree Requirements

The Graduate School of Arts and Sciences offers programs leading to the degrees of Master of Arts and Doctor of Philosophy.

The Degree of Master of Arts

The general requirements for the M.A. degree are as follows:

1. Undergraduate preparation in major and allied fields which is satisfactory to the department concerned.

2. A knowledge of one modern foreign language and/or such additional foreign languages or special techniques as the individual departments may require. Students whose native language is not English, except for those majoring in the language and literature of their native tongue, are not required to present an additional language.

3. The completion of a satisfactory program of work endorsed by the department and accepted by the Council of the Graduate School of Arts and Sciences. Application for such endorsement must be submitted on appropriate forms to the Dean of the Graduate School of Arts and Sciences not later than one week after the beginning of the second semester of the academic year in which the candidate wishes to take the degree.

4. The program of study must include six units of work, of which at least two units must involve participation in a year-long seminar or two semester seminars. The additional units may consist of additional seminar work, or no more than two units of independent supervised work and no more than two units of approved upper-level undergraduate coursework. If undergraduate courses are included among the six units, they must be supplemented by additional work in order to be counted for graduate credit. Candidates whose major department conducts a journal club or colloquium are expected to include it in their program.

5. The preparation of a paper in a special field normally related to one of the seminars or units of graduate work in the candidate's program. Candidates currently at Bryn Mawr College shall submit this paper by the date set by the department. Candidates not currently on campus must submit the paper thirty days before commencement in the academic year of their candidacy.

6. Each candidate, after all other requirements have been completed, must pass a final examination.

7. Work for the degree may be spread over several years which need not be in succession but must be included in a five-year period (sixty months).

The Degree of Doctor of Philosophy

The course of study is designed to prepare students for professional careers as scholars and teachers. Candidates should have ability of high order, intellectual curiosity, critical judgment, independence, a broad general education, fundamental training in the major and allied fields, and the determination needed to carry through an exacting program.

The general requirements, to which should be added those of the various departments, are as follows:

1. Undergraduate preparation in major and allied fields which is satisfactory to the departments concerned.

2. The completion of at least twelve academic units within the Graduate School of Arts and Sciences of Bryn Mawr College or under its sponsorship through an approved Reciprocal Plan (maximum of four units). Two units of supervised work on the dissertation are required, which may be part of (but often are taken in addition to) the twelve units of the residence requirement.

3. The recommendation of the student as a candidate for the Ph.D. by the director of the dissertation and the major department and the acceptance of the recommendation by the Council of the Graduate School of Arts and Sciences. Application for candidacy, on a form to be obtained at the Office of the Dean of the Graduate School of Arts and Sciences, may be made at any time after the completion of six units of graduate work at Bryn Mawr. Candidacy must be approved before a student may take the preliminary examinations for the degree.

4. Knowledge of the foreign languages, computer languages, and special techniques (such as statistics) required by the individual departments. In certain circumstances, students whose native language is not English may offer English for one of the languages. These requirements must be fulfilled before the student takes the preliminary examinations.

5. Satisfactory preliminary examinations in the fields established for the candidate. These examinations are intended to test the candidate's knowledge of the principles of the subject, exemplified by the command of several fields or areas, the ability to apply knowledge to new problems, and power of organization.

6. The preparation of a dissertation worthy of publication,

which presents the results of independent investigation in the fields of the major subject and contains original material, results, or interpretations.

7. A satisfactory final oral examination devoted to the dissertation and the special field in which it has been written.

8. The publication of the dissertation in whole or part. Microfilming is accepted as a method of publication.

A special pamphlet describing regulations for the Ph.D. degree is issued to students applying for candidacy. Candidates for the Ph.D. should particularly note the requirement for continuous registration once a student has been accepted for candidacy and should also note that if any part of the preliminary examinations has been taken more than five years (sixty months) before the final examination, the final examination must be both written and oral and must cover one of the general fields or areas offered for the preliminary examinations.

Graduate Program in Arts and Sciences

Graduate Faculty

Faculty on leave during all or part of the 1985-86 academic year are noted in the departmental listings.

Graduate Seminars and Courses

The seminars and courses listed in this catalogue represent only those typically or recently offered by the department. There is no assurance that a given seminar will be offered in any one year, unless the department so indicates. Questions concerning the availability of specific seminars or courses in a particular year should be addressed to the individual department chairmen.

Special graduate requirements are listed under each department. For the general degree requirements for the M.A. and Ph.D., see pages 18-20. Graduate students are responsible for keeping themselves informed concerning both general and departmental requirements and should consult regularly with their departmental adviser.

Anthropology

Professors: Jane C. Goodale, Ph.D.
Philip L. Kilbride, Ph.D.
Judith Shapiro, Ph.D., *Acting Dean of the
Undergraduate College*

Associate Professors: Richard S. Davis, Ph.D., *Chairman*
Richard H. Jordan, Ph.D.

Professor of Linguistics in Anthropology and German:
Nancy C. Dorian, Ph.D.

Prerequisites: A good undergraduate preparation in anthropology or a closely related discipline is desirable. Scores of the Graduate Record Examination Aptitude Test are required for admission. Students whose undergraduate training is not entirely adequate will

be required to take such undergraduate courses as may seem necessary.

Language Requirements and Special Skills Options: Candidates for the M.A. must have proficiency in one language (French, German, Russian, Spanish) or in statistics or in computer science. Candidates for the Ph.D. must offer one of the following two options: two modern languages (French, German, Russian, Spanish) or one modern language (French, German, Russian, Spanish) and statistics or computer science. Language skills will be tested by examinations administered by the Graduate School of Arts and Sciences. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr. Competence in statistics and computer science will be acknowledged when the student satisfactorily passes an approved graduate course in statistics or computer science. The statistics requirement may also be fulfilled by passing an examination administered by the department.

Program and Examination for the M.A. For students with an excellent undergraduate preparation, the program may consist of a minimum of six units of work in seminars or advanced undergraduate courses arranged for graduate credit. At the M.A. level, students are expected to achieve comprehensive training in the field of anthropology holistically defined to include cultural anthropology, archaeology, and anthropological linguistics. (Work in physical anthropology can be done at the University of Pennsylvania.) The program usually takes two years. The M.A. paper may be based on an essay offered in a seminar. The final examination consists of one four-hour written examination, but the Ph.D. preliminary examinations may be substituted for the M.A. examination. All graduate students are expected to take the M.A. before proceeding to the Ph.D. Those who enter Bryn Mawr College with an M.A. in anthropology may petition the department to proceed directly to the Ph.D. program.

Program and Examinations for the Ph.D. It is the department's goal to produce graduates of its Ph.D. program who are both broadly trained in the general field of anthropology and specialists in particular areas of research. In addition to the holistic training outlined above, the department offers advanced research training in the following topical and geographical specializations: Arctic and Old World prehistory, kinship and social organization, cultural and symbolic analysis, anthropology of gender, social change and modernization, psychological anthropology, missionization, ethnography of Oceania, ethnography of sub-Saharan Africa,

ethnography of lowland South America. Students are encouraged to supplement our course offerings with those at Haverford and the University of Pennsylvania.

The preliminary examinations for candidates for the Ph.D. (usually taken near the end of the third year of graduate work) will consist of three four-hour written examinations and an oral examination of one hour. Of the three written examinations, one is taken in a topical field of specialization, one in a geographical area of specialization, and one in anthropological theory. Students must also have a research proposal approved by the supervising committee.

Since the dissertation is usually based upon field work, it is difficult for a student to obtain the degree in fewer than five years.

General Degree Requirements for the M.A. and the Ph.D. See pages 18-20.

SEMINARS AND GRADUATE COURSES

Course offerings each semester include both graduate seminars and advanced undergraduate courses that can be taken for graduate credit. Rarely is the same seminar offered in consecutive years, in order to allow the greatest possible choice and variety to each student over a two-to-three-year period. For advanced students, units of supervised readings are sometimes substituted for seminars. Topics listed below indicate the areas in which seminars will be offered according to the needs of students.

Mr. Davis

Archaeological Theory and Method

Environmental Archaeology

Cultural Ecology

Topics in Old World Archaeology

Asian Paleolithic Archaeology

Hunters and Gatherers

Miss Dorian

Sociolinguistics

Miss Goodale

Social Organization

Ethnographic Methods

Ethnography of Oceania

Symbolic Anthropology

Hunters and Gatherers

Mr. Jordan

Archaeological Method of Analysis
Environmental Archaeology
Cultural Ecology
Topics in North American Archaeology
Arctic and Subarctic Archaeology

Mr. Kilbride

Ethnographic Methods
Topics in African Ethnography
Psychological Anthropology
Cultural Dynamics and Modernization
Anthropological Approaches to the Study of the State

Miss Shapiro

Culture Theory
Topics in South American Ethnography
Anthropology of Religion
Anthropology of Gender

SELECTED UNDERGRADUATE COURSES

- 303 *Cultural Theory*: Miss Shapiro
307, 308 *Language in the Social Context*: Miss Dorian
310 *Introduction to Descriptive Linguistic Techniques*:
 Miss Dorian
312 *Field Methods in Linguistics*: Miss Dorian
313 *Linguistic Anthropology*: Miss Shapiro
330 *Comparative Hunters and Gatherers*: Miss Goodale,
 Mr. Davis
340 *Psychological Anthropology*: Mr. Kilbride
350 *The Anthropology of Gender*: Miss Shapiro,
 Miss Goodale
351 *Symbolic Anthropology*: Miss Goodale
357 *Political Anthropology*: Mr. MacGaffey
 (at Haverford)
358 *Economic Anthropology*: Mr. MacGaffey
 (at Haverford)
360 *Human Evolution*: Mr. Jordan, Mr. Davis

In addition, courses at the University of Pennsylvania are available under the terms of the Reciprocal Plan (see page 16).

Biochemistry

Professors of Biology: Robert L. Conner, Ph.D.
Anthony R. Kaney, Ph.D.

Professor of Chemistry: Frank B. Mallory, Ph.D., *Chairman of Chemistry*

Associate Professor of Biology: David J. Prescott, Ph.D.,
Acting Chairman of Biology

Associate Professor of Chemistry: Kenneth G. Strothkamp, Ph.D.,
Chairman, Committee on Biochemistry

Assistant Professor of Biology: Karen F. Greif, Ph.D. (on leave, 1985-86)

Assistant Professor of Chemistry: Charles S. Swindell, Ph.D.

This interdisciplinary program offers work within the Departments of Biology and Chemistry and leads to the M.A. or Ph.D. degree. The program is administered by the Committee on Biochemistry, which consists of members of both departments. Students may enroll through either the Department of Biology or the Department of Chemistry and admission to the program is by consent of the Committee on Biochemistry.

Prerequisites. Undergraduate degree with a major or its equivalent in biology or chemistry.

Major and Allied Subjects. Students will receive their advanced degrees in either biology or chemistry with a major in biochemistry. The allied subjects will usually be selected from fields in biology or chemistry other than biochemistry, or may be selected from biophysics, physics, or mathematics. Other combinations may be accepted with the approval of the Committee and the Council of the Graduate School of Arts and Sciences.

Language requirements. See the requirements set by each department.

Program and Examination for the M.A. Students who are candidates for the M.A. will usually offer two seminars or courses in either biology or chemistry, two seminars or courses in biochemistry, and additional work consisting of an experimental investigation. The experimental work will be carried out under the direction of a member of either department and must be presented in the form of a written paper. The final examination consists of a four-

hour written examination for those students who enrolled in the Department of Chemistry or a three-hour written and one-hour oral examination for those students enrolled in the Department of Biology.

Program and Examinations for the Ph.D. All students must take the core curriculum in biochemistry, which includes Biochemistry 341 and 342 or its equivalent and the graduate courses Chemistry (or Biology) 541 and 542. Students should note that a one-year course in physical chemistry is pre- or co-requisite for admission to graduate courses in biochemistry. A course in cell biology or cell physiology and a course in genetics are also required. Any deficiencies in a student's background can usually be remedied in the first year. Additional seminars and graduate courses, depending on individual interests, may be taken in either department or at consortium institutions in order to acquire a broad background for research and teaching. Students will devote a large portion of their time to research problems. Course work and the research program will be guided by the Committee. The preliminary and final examinations are taken in accordance with the regulations set by the department in which the student is enrolled.

General Degree Requirements for the M.A. and the Ph.D. See pages 18-20.

SEMINARS AND GRADUATE COURSES

See listings under the Departments of Biology and Chemistry.

SELECTED UNDERGRADUATE COURSES

See listings under the Departments of Biology and Chemistry.

Biology

Professors: Robert L. Conner, Ph.D.
Anthony R. Kaney, Ph.D.

Associate Professor: David J. Prescott, Ph.D., *Acting Chairman*

Assistant Professor: Karen F. Greif, Ph.D. (on leave, 1985-86)

Lecturers: Stephen L. Gardiner, Ph.D.
Patricia Onderdonk Pruett, Ph.D.
Phyllis Wachsberger, Ph.D.

Associate Professor of Chemistry: Kenneth Strothkamp, Ph.D.

The Department of Biology at Bryn Mawr has a successful history of attracting, training, and placing qualified students. Since 1966, forty-three students have been awarded the doctorate and thirty-two the M.A. degrees. Course work and/or research opportunities are available in the following areas: developmental genetics of protozoa, biochemistry of insect sensory systems, structure and function of enzymes, lipid biochemistry, membrane components and their metabolic relationships in protozoa, neuronal and synaptic development in the mammalian nervous system, comparative anatomy of invertebrates, developmental biology, and molecular biology.

Research Requirement. Active engagement in research and the development of advanced research skills are required for a graduate degree in Biology. This research requirement may be met in various ways, including registration for units of independent research, registration for supervised research on the dissertation topic, participation in a research project as a formally designated research assistant, or a combination of these.

Prerequisites. An undergraduate major in a natural science, including courses in calculus, physics, and organic chemistry. One year of advanced biology with laboratory is required. Students without these prerequisites may be admitted but will be required to make up any deficiencies in their preparation. All applicants should submit scores from the Graduate Record Examination Aptitude Test and an Advanced Test in a natural science.

Major and Allied Subjects. Candidates for the M.A. and Ph.D. degrees may specialize but must take work also from areas not chosen for specialization. Candidates may specialize in biochemistry through the Biochemistry Program (see page 25). Allied subjects may be selected from fields in chemistry, physics, and psychology, and in special cases from other related fields, with the approval of the Biology Department Advisory Committee and the Council of the Graduate School of Arts and Sciences.

Language Requirements and Special Skills Options. Candidates for the M.A. degree must satisfy the requirement in one foreign language, statistics, or computer science. Candidates for the Ph.D. degree must satisfy the requirement in two foreign languages, French and German (or some other language by special permission of the department and the Council of the Graduate School of Arts and Sciences), or one foreign language and statistics or computer science. The statistics or computer science requirement may be satisfied by a course at Bryn Mawr or by examination. Alternatively, students may demonstrate competence in computer science by sub-

mitting to the department an acceptable original program with a written description of the mathematical basis of the program. Language skills will be tested by examinations administered by the Graduate School of Arts and Sciences.

Program and Examination for the M.A. One full year, or its equivalent, of course work in seminars and advanced undergraduate courses which qualify for graduate credit and a written report on a piece of experimental work carried out under the direction of a member of the department. Students may substitute two semester courses of supervised research for formal course work. The final examination consists of a three-hour written examination covering the course work and a one-hour oral examination concentrating on evaluation of the experimental work and its relation to biology.

Program and Examinations for the Ph.D. The preliminary examination for the Ph.D. consists of three written examinations, each of four hours' duration, and an oral examination of at least one hour. These examinations will cover the areas included in the course work in the specialty and allied fields. After the subject of the dissertation has been decided, the student will meet with the Biology Department Advisory Committee to outline and discuss the proposed plan of research. The final examination is oral, covering the subject of the dissertation.

General Degree Requirements for the M.A. and Ph.D. In addition to the general requirements of the Graduate School of Arts and Sciences (see pages 18-20) all graduate students in the Department of Biology are expected to gain experience in teaching, usually in the capacity of a teaching assistant.

Cooperation with the Medical College of Pennsylvania. Students formally enrolled in the graduate program in biology at Bryn Mawr College are permitted to take one graduate course per semester for credit and without payment of additional tuition or fees.

GRADUATE COURSES

Mr. Prescott

Advanced Biochemistry (Semester I)

A detailed examination of the structure and function of selected proteins. Physical and chemical means of determining the structure of macromolecules will be emphasized. Prerequisite: Biochemistry 341, 342, or equivalent. Prerequisite or co-requisite: Physical Chemistry 203, 204, or equivalent.

Mr. Strothkamp

Advanced Biochemistry (Semester II)

The kinetics and mechanisms of several enzyme systems will be examined in detail. Metalloenzymes will be emphasized.

Faculty of the Department of Biology and the Medical College of Pennsylvania.

Molecular Aspects of Cell Structure and Function (Semesters I and II) A general introduction to current concepts in molecular and cellular biology. The course is divided into four sections:

- I. Cellular Biology and Biochemistry
- II. Viruses, Bacteria, and Eukaryotic Cells
- III. Cellular Genetics
- IV. Molecular Aspects of the Disease State

For Statistics: See offerings in the Graduate School of Social Work and Social Research and the Department of Psychology.

For Computer Sciences: See offerings in the Department of Biology and Interdepartmental Listings.

Journal Club: All faculty members and graduate students meet each week for presentation of current research in biology. Graduate students, faculty, and outside speakers participate.

SEMINARS

Seminar courses involve readings from current literature and occasional presentations by outside speakers. Students are expected to present comprehensive oral reports and participate in discussions. Examples of seminars recently offered are listed by topic below:

Cellular Physiology

Membrane Structure and Function
Regulation of Lipid Metabolism
Molecular Endocrinology

Genetics

Somatic Cell Genetics
Oncogenes
Transposable Genetic Elements

Biochemistry

Neurochemistry
Protein Structure and Chemistry
Peptide Hormones

Neuroscience

Developmental Neurobiology

SELECTED UNDERGRADUATE COURSES

Two of the following advanced undergraduate courses, with supplemental work, may be taken for graduate credit.

201	<i>Genetics</i> : Mr. Kaney
303	<i>Animal Physiology</i>
340	<i>Cell Biology</i> : Ms. Greif
341, 342	<i>Biochemistry</i> : Mr. Conner, Mr. Prescott, Mr. Strothkamp
350, 351	<i>Cellular Physiology</i> : Mr. Conner
Int. 357	<i>Computer Usage in the Life Sciences</i> : Mrs. Pruett

Chemistry

Professors: Jay Martin Anderson, Ph.D., *Director of Computing Services*

Frank B. Mallory, Ph.D., *Chairman*

George L. Zimmerman, Ph.D.

Associate Professors: Kenneth G. Strothkamp, Ph.D.

Joseph Varimbi, Ph.D., *Associate
Dean of the Graduate School of
Arts and Sciences*

Assistant Professor: Charles S. Swindell, Ph.D.

Lecturers: Nancy L. Jones, Ph.D.

Amy E. Stevens, Ph.D.

Laboratory Coordinators: Krynne DeArman Lukacs, Ph.D.

David Reibstein, Ph.D.

Associate Professor of Biology: David J. Prescott, Ph.D.

Fields of Study and Research. The primary aim of the graduate program in chemistry is to prepare men and women for professional careers in academic or industrial research or in teaching by providing them with a sound and broad background in modern chemistry. Through a program of advanced courses, students are expected to develop a command of their chosen field of specialization in chemistry and also to acquire a sufficiently broad background in one or more other fields of chemistry so that they will be prepared for the variety of assignments in chemical research or teaching that they may encounter later during their careers. The fields of specialization represented in the department include organic

chemistry, physical chemistry, biochemistry (see the description of the interdepartmental program in biochemistry on page 25), physical inorganic chemistry, and bioinorganic chemistry. The major part of each student's graduate training is acquired through the experience of carrying out dissertation research under the supervision of a member of the faculty. Currently there are active research programs in the department in the following areas: organic synthesis of natural products, development of new reactions for organic synthesis, mechanistic and synthetic organic photochemistry, nmr studies, substituent effects, gas-phase molecular spectroscopy and photochemistry, structure and function of copper proteins, and bioinorganic chemistry.

Research Requirement. Active engagement in research and the development of advanced research skills are required for a graduate degree in chemistry. This research requirement may be met in various ways, including registration for units of independent research, registration for supervised research on the dissertation topic, participation in a research project as a formally designated research assistant, or a combination of these.

Prerequisites. Undergraduate courses in general chemistry, organic chemistry, physical chemistry, inorganic or analytical chemistry, calculus, and general physics. Applicants should submit scores on the Graduate Record Examination, including all of the Aptitude Tests and the Advanced Test in Chemistry. Under special circumstances, applicants lacking one or more of these prerequisites may be considered for admission in consultation with the department.

Special Skills Requirements. Candidates for the M.A. degree must demonstrate skill either in computing or in a foreign language. Candidates for the Ph.D. degree must demonstrate skill both in computing and in a foreign language. To demonstrate skill in computing, a student must write a satisfactory new computer program and also must pass an examination set by the department. To demonstrate skill in a foreign language, a student must pass an examination set by the department and under the supervision of the Graduate School of Arts and Sciences. The examination involves the translation into English of chemical articles written in one of the following languages: French, German, or Russian; alternatively, entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

Program and Examination for the M.A. Candidates for the M.A. degree usually complete two units of 500-level coursework in their field of specialization, two other units of 300-level or 500-level

coursework in chemistry, and at least two units of supervised research in chemistry under the supervision of a faculty member. The final examination is a four-hour written examination covering material in the candidate's special field.

Program and Examinations for the Ph.D. Although flexibility is possible, candidates for the Ph.D. degree usually complete five or six units of advanced coursework in their field of specialization and at least two units of advanced coursework in another field of chemistry. Dissertation research normally is begun in the summer following the student's first academic year of graduate work and occupies the major portion of the student's time for the subsequent three (or four) years. Usually, the preliminary examinations are taken in the student's third year of graduate study; they consist of two four-hour written examinations and two one-hour oral examinations. The two written examinations will cover the candidate's field of specialization; the first will deal with general aspects of that field and the second with aspects of the particular areas of that field in which the candidate's research is being carried out. This second examination will include questions designed to test the candidate's understanding of material from the recent chemical literature. One of the oral examinations will be for the purpose of clarifying and augmenting the candidate's responses on the two written examinations. The three examinations described so far must be completed within a period of five weeks. The other oral examination will involve the defense of two original chemical research proposals previously developed and submitted by the candidate. No more than one of these proposals may deal with work in the candidate's area of research within the field of specialization. All four of the preliminary examinations must be completed within a period of one year. After the candidate's Ph.D. dissertation has been submitted, there will be a one-hour oral final examination devoted to the dissertation.

General Degree Requirements for the M.A. and Ph.D. See pages 18-20.

Colloquium. All of the faculty and graduate students of the department meet regularly on Friday afternoons to hear and discuss presentations of current research, usually by chemists from other institutions.

GRADUATE COURSES

The department offers the following one-semester courses, most of which are given on an alternate-year basis:

Organic Chemistry:

Synthetic Organic Chemistry: Modern Methods: Mr. Swindell
Synthetic Organic Chemistry: Natural Products: Mr. Swindell
Physical Organic Chemistry: Molecular Photochemistry: Mr. Mallory
Physical Organic Chemistry: Applications of NMR Spectroscopy: Mr. Mallory

Physical Chemistry:

Statistical Thermodynamics: Mr. Zimmerman
Photochemistry: Mr. Zimmerman

Inorganic Chemistry:

Special Topics in Inorganic Chemistry: Mr. Varimbi

Biochemistry:

Spectroscopy of Macromolecules: Mr. Strothkamp
Structure and Chemistry of Proteins: Mr. Prescott
Metal Ions in Biological Systems: Mr. Strothkamp

SELECTED UNDERGRADUATE COURSES

- 311 *Advanced Organic Chemistry I*: Mr. Swindell
312 *Advanced Organic Chemistry II*: Mr. Mallory
321 *Quantum Mechanics of Atoms and Molecules*: Ms. Stevens
322 *Atomic and Molecular Spectroscopy*: Ms. Stevens
332 *Advanced Inorganic Chemistry*: Ms. Jones
341 *Macromolecular Structure and Function*: Mr. Strothkamp, Mr. Prescott
342 *Intermediary Metabolism*: Mr. Prescott, Mr. Strothkamp

Classical and Near Eastern Archaeology

Professors: Richard S. Ellis, Ph.D.

Machteld J. Mellink, Ph.D.

Brunilde S. Ridgway, Ph.D., *Chairman*

Associate Professors: Gloria F. Pinney, Ph.D.

James C. Wright, Ph.D. (on leave, 1985-86)

*Professor of Classical and Near Eastern Archaeology
and of History of Art*: Phyllis Pray Bober, Ph.D.
(on leave, Semester II, 1985-86)

Lecturer in Archaeology: Joan B. Connelly, Ph.D.

Assistant Professor of Latin: David S. Potter, Ph.D.

Prerequisites. An undergraduate major in archaeology or at least two courses in archaeology or ancient art combined with a major in history of art, anthropology, Greek, Latin, or ancient history. It is expected that students of classical archaeology will have a basic knowledge of Greek, Latin, and ancient history, and a reading knowledge of German and French (or Italian). For students of Near Eastern archaeology the prerequisites are ancient history and a reading knowledge of German and French (or Italian); some preliminary study of an ancient Near Eastern language is desirable. Each application will be judged individually on its aims and soundness of preparation. All applicants must submit scores of the Aptitude Test of the Graduate Record Examinations.

Fields of Study and Allied Subjects. There are two fields of concentration: (1) The art and archaeology of the Greek and Roman world and its Mediterranean predecessor; (2) the art and archaeology of the ancient Near East. These fields may be combined in a program of major and allied subjects. Allied subjects are ancient languages (Greek, Linear B, Latin, Sumerian, Akkadian, Ugaritic, Hebrew, Hittite, Egyptian), ancient history, history of art, anthropology, or a science related to the program of the student. See also Classical Studies.

Language Requirements. For the M.A. and Ph.D., a good reading knowledge of German and French. For the Ph.D., a reading knowledge of one ancient language. Modern language skills will be tested by examinations administered by the Graduate School of Arts and Sciences.

Program and Examination for the M.A. Six units of work in the Department of Archaeology or in Archaeology and an allied field; a research paper prepared under the supervision of a departmental adviser; three hours of written examination concerning the field in which the research paper was undertaken; one hour of oral examination to discuss the results. This M.A. is prerequisite for the Ph.D. program and will normally take two years to complete.

Program and Examinations for the Ph.D. After completion of the M.A. program students continue to take seminars and supervised work in preparation for the preliminary examinations and the Ph.D. dissertation. A program of study is designed for each individual student in consultation with the department. Four special fields of study (one of which may be an allied field) are prepared for

the preliminary examinations. The examinations consist of four four-hour papers and an oral examination.

All graduate students are encouraged to spend their third or fourth year of graduate study abroad. Students in classical archaeology are advised to spend a year at the American School of Classical Studies in Athens. Students of Near Eastern archaeology will be advised to attend a center of archaeological research in their area of concentration. Museums in Europe and the Near East should be visited in the course of the year(s) spent abroad. Participation in excavations under the auspices of Bryn Mawr College or other schools is arranged when possible.

Depending upon individual study programs, the preliminary examinations are normally taken at the end of the third or in the course of the fourth year of graduate study.

Fellowships for Excellence in the Classics. In addition to the regular fellowships and scholarships, three special Fellowships for Excellence in the Classics are awarded each year on the recommendation of the Classical Committee to new students in the Departments of Classical and Near Eastern Archaeology, Greek, and Latin.

Classical Languages and Classical Studies. For M.A. and Ph.D. degrees in both Greek and Latin and in combinations of either or both languages with Classical Archaeology, see Classical Languages and Classical Studies.

General Degree Requirements for the M.A. and the Ph.D. See pages 18-20.

Excavation: The department has had a series of excavation projects. Two of them, the excavations at Karatas/Semayük and at Gritille in Turkey, have finished their field work and are now in the phase of analysis and publication of the results. The program of survey and excavation in the Nemea Valley in Greece will continue during the summers of 1985 and 1986. Further field projects in Greece or the Near East are foreseen for the future. There will be opportunities for Bryn Mawr graduate students and advanced undergraduates to participate in these projects. In addition, students are often able to take part in excavations sponsored by other institutions. Archaeology applicants interested in excavation are strongly urged to get field experience as soon as possible and to consider attending training programs in the United States or abroad, as well as in the area of their special interest.

Cooperation with the University of Pennsylvania. Attention is drawn to the courses offered by the Departments of Classical Archaeology, Anthropology, History of Art, Oriental Studies, and

Biblical Archaeology at the University of Pennsylvania. Under the Reciprocal Plan (see page 16), students may register for a unit of work at the University or pursue research at the University Museum.

SEMINARS AND GRADUATE COURSES

Seminar topics are determined for each semester in consultation with the graduate students.

Mrs. Bober

Roman Portraiture
The Art of Late Antiquity
The Survival of Antiquity in the Renaissance
Roman Sarcophagi: Problems in Style and Iconography

Mr. Ellis

Archaeology of Syria: Phoenicia in the Iron Age
The Bronze Age in the Levant
Mesopotamian Civilization
The Archaeology of Ur, Assur, and Babylon
The Art of the Assyrian Palaces
Syro-Hittite Sites and their Art
The Archaeology of Elam
Mesopotamia in the Third Millennium B.C.

Miss Mellink

The Early Iron Age in Anatolia
Hittites and Mycenaeans
Anatolian Architecture
Minoan and Mycenaean Religion
Hittite Art
The Archaeology of Troy

Mrs. Pinney

Illustrations/texts for Greek cultic performances
(See also under Department of Greek)
Greece in the Later Iron Age
Monumental Painting
Etruria in the Sixth Century B.C.
Problems in Greek Vase Painting
Julio-Claudian Portraiture

Mrs. Ridgway

Hellenistic Sculpture
Greek Sculpture
Roman Copies of Greek Sculpture
Julio-Claudian Sculpture
Architectural Sculpture of Magna Graecia

Mr. Wright.

The Early Iron Age in the Aegean
Problems in the Study of Greek Cities
Problems in Greek Architecture
Mycenaean Archaeology
The Middle Minoan Period in Crete

SELECTED UNDERGRADUATE COURSES

Incoming students with incomplete preparation in archaeology will be advised to take selected undergraduate courses (with additional work for graduate credit) during their first years in graduate school.

- 202 *Mesopotamia to 1600 B.C.*: Mr. Ellis
- 205 *Greek Sculpture*: Mrs. Ridgway
- 206 *Hellenistic and Roman Sculpture*: Mrs. Pinney
- 209 *Aegean Archaeology*: Mr. Wright or Miss Mellink
- 213 *Egyptian Archaeology*: Mr. Ellis
- 216 *Hittite Archaeology*: Miss Mellink
- 221 *The Ancient Near East*: Mr. Ellis
- 301 *Greek Vase-Painting*: Mrs. Pinney
- 302 *Greek Architecture*: Mr. Wright
- 305 *Etruscan Archaeology*: Mrs. Pinney
- 306 *Monumental Painting*: Mrs. Pinney
- 307 *The Bronze Age in Syria and Palestine*: Mr. Ellis
- 309 *The Origins of Civilization and the State*: Mr. Ellis,
Mr. Davis

Classical Languages

For faculty see Departments of Greek and Latin.

Students may enroll through either the Department of Greek or the Department of Latin, and admission to the program is by consent of the Classical Committee.

Prerequisites. An undergraduate major in Classics, with a good reading knowledge of both languages and representative reading in both literatures.

Languages Requirements. French and German for both the M.A. and Ph.D. degrees.

Program and Examination for the M.A. Six units of graduate work divided equally between Greek and Latin; sight translation ex-

aminations in both Greek and Latin; an M.A. paper combining material from the two languages; a final examination consisting of a three-hour written examination on two of the fields covered by the student's seminars and an oral examination of one hour on the field of the paper.

Program and Examinations for the Ph.D. Ten units of graduate work equally divided between Greek and Latin and two units of supervised work on the dissertation. Rigorous sight translation examinations in both languages must be passed before the preliminary examinations, which consist of four written papers (two to be chosen from fields offered in Greek and two from those offered in Latin). The dissertation must combine, to some degree, material from both languages. The final examination is devoted to the dissertation and the field in which it has been written.

For seminars and courses see Departments of Greek and Latin.

Classical Studies

For faculty see Departments of Classical and Near Eastern Archaeology, Greek, and Latin. Students may enroll through the Department of Classical and Near Eastern Archaeology, the Department of Greek, or the Department of Latin, and admission to the program is by consent of the Classical Committee.

Both M.A. and Ph.D. degrees are offered in the following fields:

Classical Studies (Classical Archaeology, Greek, and Latin)

Greek Studies (Greek Archaeology and Greek)

Roman Studies (Roman Archaeology and Latin)

Prerequisites. An undergraduate major or minor in Classics with a good reading knowledge of one or both languages and/or ancient history.

Language Requirements. French and German for all degrees.

Program and Examination for the M.A. Sight translation examinations in Greek or Latin or both. Six units to be divided equally between the two or among the three departments. An M.A. paper combining material from two departments. An examination, both written and oral, on an appropriate combination of subjects from the two or three departments involved.

Program and Examination for the Ph.D. Ten units to be divided as equally as possible between the two or among the three departments. Sight translation examinations in Greek or Latin or both. The four preliminary examinations are divided equally between two departments or, in the case of three departments, one in each

of two and two in the third or "major" department. Two units of supervised work on the dissertation, which combines material from two departments at least to some degree. A final oral examination in defense of the dissertation.

For seminars and courses see the Departments of Classical Archaeology, Greek, and Latin.

English

Professors: Robert B. Burlin, Ph.D.
Thomas H. Jackson, Ph.D.

Associate Professors: Carol L. Bernstein, Ph.D., *Director of Graduate Studies.*
Sandra M. Berwind, Ph.D., *Chairman*
Peter M. Briggs, Ph.D.
E. Jane Hedley, Ph.D.
Joseph E. Kramer, Ph.D.

Assistant Professors: Katrin Ristkok Burlin, Ph.D.
Susan Dean, Ph.D.
Christopher Kendrick, Ph.D.
Samuel G. Wong, Ph.D.

Lecturer: Xavier Nicholas, M.A.

Andrew W. Mellon Postdoctoral Fellow and Lecturer:
H. Meile Steele, Ph.D.

Prerequisites. An undergraduate major in English or its equivalent. All applicants should submit scores in the Aptitude Test and the Advanced Test of the Graduate Record Examinations and a sample of recent critical writing. Personal interviews, while not required for admission, are encouraged.

Language Requirements. It is hoped that language skills will enrich the student's work in seminars and courses. For the M.A. degree, a knowledge of either French or German adequate to the reading of scholarly and literary texts is required. For the Ph.D., the student must either pass examinations in both French and German or demonstrate superior competence in one by satisfactorily completing one unit of graduate work in that language or its literature at Bryn Mawr College. (In special cases, with the approval of the appropriate language department and the Department of English, equivalent work at another university may be accepted.) It is recommended that students working toward the doctorate have

formal training in Latin or Greek. The doctoral candidate should satisfy these requirements by the beginning of the second year of graduate study; they must be satisfied before the candidate will be admitted to the preliminary examinations.

With the approval of the Department of English, another modern language may be substituted for French or German when it can be shown to be pertinent to a projected dissertation.

Modern foreign language skills will be tested by examinations administered by the Graduate School of Arts and Sciences. The student also has the option of offering scores of the GSFLT. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr College.

Program and Examination for the M.A. Six units of work in English or four in English and two in an allied field. A long paper written under the supervision of a faculty member is required. The final examination is written, four hours in length, on the general field of the M.A. paper.

Program and Examinations for the Ph.D. Work of the department is carried on primarily through small seminars, supplemented by selected advanced undergraduate courses in which the special needs of graduate students are met and, for advanced students, supervised units of independent study. Twelve units of graduate work are required, two of which may be in an allied field. Two additional units of supervised work on the dissertation (USD) are normally required. Candidates must spend at least one year in full-time graduate work. The program must include some training in Old or Middle English or in the history of the English language.

After being accepted for doctoral candidacy, the student will take preliminary examinations in five parts: four written (four hours each) and one oral (one or two hours). One written examination may be in an allied field. The choice of the four fields will be determined by the student in consultation with the graduate adviser and the departmental examiners, who will form the supervising committee. The candidate is expected to demonstrate a balanced knowledge of different periods.

Before proceeding with the dissertation the doctoral candidate will submit a prospectus to be discussed with the departmental members of the supervising committee. The final examination is devoted to the dissertation and the field in which it has been written.

Teaching Preparation. The department offers an apprenticeship program in teaching, which is available to students who have advanced beyond the M.A.

General Degree Requirements for the M.A. and the Ph.D. See pages 18-20.

SEMINARS

Seminars run for one semester. Over a two-year period, opportunity will be offered for seminar study in the following fields of English and American Literature.

Medieval Literature: Mr. Burlin

Literature of the Sixteenth Century: Mrs. Hedley

Shakespeare and Renaissance Drama: Mr. Kramer

Literature of the Seventeenth Century: Mrs. Hedley, Mr. Kendrick, Mr. Wong

Restoration and Eighteenth-century Literature: Mr. Briggs

Fiction: Mrs. Burlin

Nineteenth-century English Literature: Mrs. Bernstein

Twentieth-century Literature: Mrs. Berwind, Mr. Jackson

American Literature: Mrs. Dean, Mr. Nicholas

ADVANCED UNDERGRADUATE COURSES OPEN TO GRADUATE STUDENTS

300 *Old English Literature:* Mr. Burlin

303 *Middle English Literature:* Mr. Burlin

307 *The History of The English Language:* Mr. Burlin

315 *Sixteenth-century Chivalric Romance:* Mrs. Hedley

316 *Spenser:* Mrs. Hedley

323 *Forms of Renaissance Tragedy:* Mr. Kramer

325 *Shakespearean Topics:* Mr. Kramer

326 *Theater of Ben Jonson:* Mr. Kramer

333 *The Metaphysical Poets: Donne to Marvell:* Mrs. Hedley, Mr. Kendrick, Mr. Wong

340 *Samuel Johnson and His Circle:* Mr. Briggs

342 *Literature in Transition 1740-1800:* Mr. Briggs

352 *Romanticism and Interpretation:* Mrs. Bernstein

358 *"Women of Talents":* Mrs. Burlin

363 *Walt Whitman and American Poetry:* Mrs. Dean

371 *The Development of Modern Poetry:* Mr. Jackson

375 *W. B. Yeats and Wallace Stevens:* Mrs. Berwind

376 *Joyce and Lawrence:* Mr. Jackson

383 *The Novel and Society:* Mrs. Bernstein

384 *Theories of Fiction:* Mrs. Bernstein

385 *Problems in Satire:* Mr. Briggs

387 *Utopias Past and Present:* Mr. Kendrick

388 *The Development of Modern Poetry:* Mr. Jackson

393 *Interpretive Strategies:* Mrs. Bernstein

394 *Marxist Criticism:* Mr. Kendrick

French

Professors: Michel Guggenheim, Ph.D.

Catherine Lafarge, Ph.D., *Dean of The Graduate
School of Arts and Sciences*

Mario Maurin, Ph.D.

Associate Professor: Grace Morgan Armstrong, Ph.D., *Chairman*

Assistant Professor: Claudia Reeder, Ph.D.

Visiting Professor: Lance Donaldson-Evans, Ph.D.

For the 1986-87 year, the Department of French will accept applications from those students who wish to work toward the M.A. Applications from those who wish to work toward the Ph.D. may be considered but only in exceptional cases and such students should consult the chairman of the department before submitting an application. A limited amount of financial aid is available in the form of tuition scholarships and teaching assistantships. This aid is available for both full-time and part-time students.

Prerequisites. An undergraduate major in French, based on study in school and at least three years of college French, including some advanced work in literature, with evidence of ability to present reports and carry on discussion in French. Training in Latin corresponding to at least two years' study in school is advisable.

Applicants should submit scores in the Aptitude Test and Advanced Test of the Graduate Record Examination taken within two years of the date on which they wish to begin graduate studies at Bryn Mawr. Candidates are required to support their application by at least one essay written in French for an advanced undergraduate course or graduate seminar previously taken, as well as by an essay written in English. They are strongly urged to arrange for a personal interview with a member of the department.

Major and Allied Subjects. Students specialize in French literature from the Middle Ages to the present. Successful completion of a course in Old French philology and medieval French literature is required of Ph.D. candidates. In special cases and with the consent of the department, one of the following may be accepted as an allied subject: any literature, ancient or modern; comparative philology; European history; philosophy; history of art.

Language Requirements. For the M.A. degree, one Romance language other than French, or German, or evidence of extensive training in medieval or advanced Latin. For the Ph.D. degree,

either a reading knowledge of two modern languages (including one Romance language other than French) or superior competence in one. Students may satisfy the latter requirement by completing satisfactorily at least two units of graduate work at Bryn Mawr in a Romance literature other than French or in German literature. Language requirements must be fulfilled before the doctoral candidate takes the preliminary examinations.

Language skills will be tested by examinations administered by the Graduate School of Arts and Sciences. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

Program and Examination for the M.A. Candidates will offer four units of graduate work in French and two units in either French or an allied field. An M.A. paper on a topic related to the work in one of the seminars is required. The final examination consists of a three-hour written examination and a one-hour oral examination, both in French.

Admission to Candidacy for the Ph.D. After completing six full units of graduate work at Bryn Mawr, students are required to pass a qualifying examination before admission to doctoral candidacy. The paper and final examination required for the completion of the Bryn Mawr M.A. program may be substituted for the qualifying examination.

Program and Examinations for the Ph.D. Candidates will offer twelve units of graduate work, one of which may be in an allied field. Suitable fields should be discussed with the department concerned and with the Department of French.

Students are encouraged to study and do research abroad whenever appropriate and feasible. Opportunities for summer study are provided by the graduate courses given at the Bryn Mawr *Institut d'Etudes Francaises d'Avignon*.

The preliminary examinations consist of four papers written in French and an oral examination. The final examination is oral and is devoted to the dissertation and the field in which it has been written.

General Degree Requirements for the M.A. and the Ph.D. See pages 18-20.

SEMINARS AND GRADUATE COURSES

An introductory course in Old French philology and medieval French literature is offered on a regular basis. Graduate seminars in selected fields of French literature are given each year, so arranged

that the same one will not be given in successive years. The seminars, conducted in French, are selected from the following:

Miss Armstrong

Philologie et littérature médiévales

Le Théâtre médiéval

Le Roman arthurien

Littératures et publics du Moyen Age, 1200-1450

Mr. Donaldson-Evans

Poésie lyrique de la Pléiade (Semester I, 1985-86)

Mr. Guggenheim

Rousseau et le préromantisme

Voltaire

Techniques narratives du XIX^e et XX^e siècles (Semester II, 1985-86)

Précieux, mondains et moralistes du XVII^e siècle

Miss Lafarge

Stendhal et Flaubert

Marivaux, Giraudoux

Diderot

Le Roman du XVIII^e siècle

Mr. Maurin

Le Romantisme

L'Autobiographie de Chateaubriand à Sartre

Valéry, Claudel (Semester I, 1985-86)

Romancières du XX^e siècle

Mauriac et Sartre

Le Théâtre moderne (Semester II, 1985-86)

Gide et Mauriac

Baudelaire

Mallarmé

Proust et Gide

Verlaine, Rimbaud

SELECTED UNDERGRADUATE COURSES

306 *Le Roman du XVIII^e siècle*

308 *Baudelaire*

309 *Verlaine, Rimbaud*

310 *Essayistes du XX^e siècle*

311 *Le Théâtre au XX^e siècle*

314 *Gide et Sartre*

350 *Voix Médiévales et échos modernes: Miss Armstrong (Semester I, 1985-86)*

351 *Poésie maniériste et baroque*

- 352 *La Vision de la femme dans la littérature française:*
Mrs. Hagorian-Goldwyn (Semester I, 1985-86)
- 353 *Autobiographies de Chateaubriand à Sartre*
- 354 *Ecrivains engagés de Montaigne à Sartre*
- 355 *Techniques narratives*

Courses offered at the *Institut d'Etudes Françaises d'Avignon*:

Molière or Racine
Les Fleurs du mal or Rimbaud
Le Surréalisme
Travaux de traduction et de stylistique
Le roman courtois

Geology

Professors: Maria Luisa B. Crawford, Ph.D., *Chairman*
 William A. Crawford, Ph.D.
 Lucian B. Platt, Ph.D.
 W. Bruce Saunders, Ph.D.

Assistant Professor: Barbara C. Seidell, Ph.D.

Prerequisites. A bachelor's degree in a natural science or mathematics. Students who have not majored in geology will be expected to make up deficiencies in their preparation during their first year of graduate study. Applicants must submit scores in the Aptitude Test of the Graduate Record Examinations.

Major and Allied Subjects. Students may specialize in geochemistry, mineralogy-petrology, paleontology-stratigraphy, sedimentology, or regional and structural geology. The allied subject for the Ph.D. may be either another field of geology or any one of the other natural sciences or mathematics; other subjects may be accepted in special cases.

Language Requirements and Special Skills Options. For the M.A. degree proficiency in one of the following languages: Russian, German, or French or proficiency in digital computation or statistics. Candidates for the Ph.D. degree may offer two foreign languages from the following: Russian, German, or French, or one language from this list and proficiency in digital computation or statistics. Language skills will be tested by examinations administered by the Department of Geology under the supervision of the Graduate School of Arts and Sciences. The results are confirmed by the appropriate language department. The proficiency in digital com-

putation or statistics will be tested by the department or may be demonstrated by the satisfactory completion of an appropriate course.

Research and Teaching Requirement. Active engagement in research and the development of advanced research skills are required for a graduate degree in geology. This research requirement may be met in various ways, including registration for units of independent research, registration for supervised research on the dissertation topic, participation in a research project as a formally designated research assistant, or a combination of these.

Students are also expected to participate in the teaching functions of the department.

Program and Examination for the M.A. At least six semester courses are required, two of which will consist of a field or laboratory research project under the direction of a member of the faculty. The results of the research project must be reported in a master's thesis. The student must also pass a three-hour written examination at the end of the third semester and a one-hour oral thesis defense after the final draft of the thesis has been accepted by the committee.

Program and Examination for the Ph.D. Candidates will spend a major portion of their time on a research problem; ordinarily, this will involve field mapping and collecting, together with laboratory study. All least twelve units of course work must be taken; the total number of units will depend on the student's preparation. A set of preliminary examinations which test general knowledge in geology, knowledge in the candidate's special field, and either an allied subject or an additional field in geology must be passed before the student becomes deeply involved in the research project. A final examination follows the completion of the Ph.D. dissertation. This examination is devoted to the dissertation and the field in which it has been written.

Every graduate student in the department is expected to assist in the work of the department.

General Degree Requirements for the M.A. and the Ph.D. See pages 18-20.

SEMINARS AND GRADUATE COURSES

Two or three courses or seminars are offered each semester. These are usually chosen so that each is offered once every other year. The specific content of the seminars is determined by the current interests of faculty and students. Students wishing to do so may also

attend graduate courses at the University of Pennsylvania under the Reciprocal Plan (see page 16).

Mr. Crawford

Thermodynamics for Geologists and Analytical Techniques

Theory and application of thermodynamics for solving geological problems combined with instruction in wet chemical and instrumental means of silicate analysis.

Igneous Petrology

Selected subjects in the structure, physical chemistry, and origin of igneous rocks. Prerequisite: *Thermodynamics for Geologists* or its equivalent.

Mrs. Crawford

Metamorphism

The physical and chemical processes of metamorphism, accompanied by regional studies. Prerequisite: *Thermodynamics for Geologists* or its equivalent.

Advanced Mineralogy

The study of selected rock-forming mineral groups accompanied by instruction in optical, chemical, and x-ray techniques.

Mr. Platt

Structural Geology

Modern concepts in structural geology and theories of deformation.

Tectonics

Stratigraphic and structural relations of mountain ranges leading to analysis of their origin.

Mr. Saunders

Paleontology

Study of selected animal groups in geologic time.

Mrs. Seidell

Sedimentary Rocks

Detailed facies analysis of selected modern and ancient sedimentary rock sequences. Prerequisite: *Sedimentology*.

Chemical Sediments

The physical and chemical processes leading to the accumulation of chemical sediments; special emphasis on diagenesis and evaporites.

SELECTED UNDERGRADUATE COURSES THAT MAY BE TAKEN (WITH
ADDITIONAL WORK) FOR GRADUATE CREDIT

301 *Geochemistry*

302 *Aqueous Geochemistry*

303 *Advanced Paleontology*

- 304 *Tectonics*
- 305 *Igneous and Metamorphic Petrology*
- 306 *Sedimentology*
- 307 *Stratigraphy*
- 308 *Economic Geology*
- 310 *Introduction to Geophysics*

Greek

Professor: Mabel L. Lang, Ph.D., *Chairman*

Associate Professors: Gregory W. Dickerson, Ph.D.
Richard Hamilton, Ph.D.

Prerequisites. An undergraduate major or minor in Greek, based on at least four years of college Greek, or the equivalent, with representative reading from Greek literature and history which, in the opinion of the department, provides an adequate basis for graduate work. It is expected that all graduate students in Greek will have some knowledge of Latin. All candidates must submit scores in the Aptitude Test of the Graduate Record Examinations. Candidates for the Ph.D. degree must first complete an M.A. degree.

Allied Subjects. Any literature, ancient or modern; ancient history; ancient philosophy; classical archaeology; linguistics.

Language Requirements. Latin, French, and German for both the M.A. and the Ph.D. Language skills will be tested by examinations administered by the Graduate School of Arts and Sciences or by the GSFLT for French and German. Entering students may offer scores of the GSFLT taken during the twelve months previous to the date on which they begin graduate work at Bryn Mawr.

Program and Examination for the M.A. The program consists of six units of graduate work in Greek or four units in Greek and two units in an allied field. Before admission to the final examination candidates must pass an examination in Greek sight translation and complete the M.A. paper. The final examination consists of a three-hour written examination on two of the fields covered by the student's seminars and an oral examination of one hour on the field of the paper.

Program and Examinations for the Ph.D. Before admission to the preliminary examinations candidates must pass a rigorous ex-

amination in Greek sight translation. The preliminary examinations consist of four written papers, one of which shall be an allied subject, and an oral examination. The fields from which the three major papers may be selected include: epic poetry (with emphasis on Homer), lyric poetry (with emphasis on Pindar), tragedy, comedy, the orators, the historians, the Pre-Socratics, Plato, Hellenistic poetry, and various periods of Greek history. The final examination is devoted to the dissertation and the field in which it has been written.

Fellowships for Excellence in the Classics. In addition to the regular fellowships and scholarships, three special Fellowships for Excellence in the Classics are awarded each year on the recommendation of the Classical Committee to new students in the Departments of Classical and Near Eastern Archaeology, Greek, and Latin.

Classical Languages and Classical Studies. For M.A. and Ph.D. degrees in both Greek and Latin and in combinations of either or both languages with Classical Archaeology, see Classical Languages and Classical Studies.

General Degree Requirements for the M.A. and the Ph.D. See pages 18-20.

SEMINARS AND GRADUATE COURSES

Mr. Dickerson

Aeschylus, Oresteia (Semester II, 1985-86)

Mr. Hamilton

Pindar and Greek Lyric (Semester I, 1985-86)

Miss Lang

Problems in Athenian History (Semester I, 1985-86)

Herodotus (Semester II, 1985-86)

SELECTED UNDERGRADUATE COURSES

The following undergraduate courses are open to graduate students in other fields.

- | | |
|----------|--|
| 101 | <i>Herodotus:</i> Mr. Dickerson |
| 104 | <i>Homer's Odyssey:</i> Mr. Dickerson |
| 201, 202 | <i>Plato and Thucydides: Tragedy:</i>
Mr. Hamilton, Mr. Dickerson |
| 251 | <i>Philosophical Readings:</i> Mr. Hamilton |
| 301, 302 | <i>Hesiod and Pindar: Aeschylus and Aristophanes:</i>
Mr. Hamilton, Mr. Dickerson |

History

Professors: Charles M. Brand, Ph.D.
Arthur P. Dudden, Ph.D., *Chairman*
Barbara M. Lane, Ph.D.
J.H.M. Salmon, Lit.D.
Alain Silvera, Ph.D.
James Tanis, Th.D., *Director of Libraries*

Assistant Professor: Jane Caplan, D. Phil.

Lecturer: LeRoy-Ronald Johnson, Ph.D.

For the 1986-87 year, the Department of History will accept applications from those students who wish to work toward the M.A. Applications from those who wish to work toward the Ph.D. may be considered but only in exceptional cases and such students should consult the chairman of the department before submitting an application. A limited amount of financial aid is available in the form of tuition scholarships and teaching assistantships. This aid is available for both full-time and part-time students.

Fields of Study. Master's and doctoral programs develop from seminars and courses available. Research for theses and dissertations grows out of seminars and units offered by the Department of History and those allied with it.

Prerequisites. A thorough undergraduate preparation in history, the humanities, and the social sciences. Students who wish to work in ancient or medieval fields must be able to read the essential ancient languages. Those planning work in modern European history or American history must have a reading knowledge of one modern language, preferably French or German, upon entrance. Those planning doctoral programs should have two languages upon entrance or acquire the second language at once. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr. Applicants must submit scores in the Aptitude Test of the Graduate Record Examinations and a sample of recent historical writing.

Language Requirements. At least one modern foreign language, to be approved by the department, is required of M.A. degree candidates. The language examination given by the Graduate School of Arts and Sciences or the GSFLT must be attempted before the end of the first semester's work; the examination must be passed before

the end of the following summer or before candidacy for the degree is requested, whichever is earlier.

At least two modern foreign languages, the choice of which must be approved by the department during the student's first academic year, are required of the Ph.D. candidates. Students entering with an A.B. must attempt the Graduate School of Arts and Sciences language examination or the GSFLT before the end of the first semester's work and must pass the examination in one language before they may enter upon a third semester of work. They must attempt an examination in the second language no later than their third semester of work and must pass an examination on this second language before they may enter upon a fifth semester of work. Students entering with an M.A. must attempt examinations in both languages before the end of their first semester and must pass examinations in both before they may enter upon a third semester of work. The time limit for part-time students is determined by the academic year, not by the number of units completed. Candidates for the Ph.D. in ancient or medieval history must also demonstrate ability to read one classical language. Directors of research may also require demonstration of ability in special techniques.

In practice, proof of language facility should be established early in the second semester of work to enable the student to enter upon a third semester of work. In addition, since financial aid decisions are made early in Semester II, often before Semester II language examinations are completed, students applying for financial aid for the succeeding academic year should demonstrate language competence before the end of Semester I.

Program and Examination for the M.A. The program consists of six units of work in history or in history and an allied field, together with a thesis and a final examination. The final examination is written and is usually four hours in length.

Program and Examinations for the Ph.D. All students are expected at some time to take a seminar or course in which aspects of historiography and historical method are studied. The preliminary examinations test the student's competence in four fields of history or in three fields of history and one field in an allied subject. For example, allied work in medieval literature, art, or philosophy is usually recommended to students of medieval history, and one of these may be offered in the preliminary examinations.

The preliminary examination may, at the student's choice, consist of a four-hour written exercise in one field followed by a two-and one-half-hour oral interrogation on three fields, or four-hour written exercises in each of the student's four fields followed by a

comparatively brief oral interrogation covering all four fields. The field of the projected dissertation will be included in the preliminary examinations.

Students whose dissertations are in American history will be required to take at least two fields in modern European history. Students specializing in modern European history must offer at least two fields of medieval history for examination. The final oral examination is devoted to the dissertation and the field in which it has been written; plans for publication will also be reviewed. The department reviews each student's progress and plans for work at all stages.

General Degree Requirements for the M.A. and the Ph.D. See pages 18-20.

SEMINARS AND GRADUATE COURSES

The seminars are arranged to allow the fullest possible choice for students over a two- or three-year period of study. Normally the same seminar will not meet two years in succession. Topics listed below indicate the areas in which seminars will be offered according to the needs of students and the current research interests of the faculty.

Ancient History

Students should consult pages where the offerings of the Departments of Greek and Latin are listed.

Byzantine and Medieval Europe

Mr. Brand

Topics in Medieval History

The Fifth and Sixth Centuries

The Twelfth Century

Venice from the Tenth through the Thirteenth Centuries

Early Modern Europe

Mr. Salmon

Early Modern French History

Early Modern European Political Theory

Mr. Tanis

The Reformed Reformation in Northern Europe

Selected Topics in Sixteenth- and Seventeenth-century Dutch History

Modern European History

Ms. Caplan

Modern Germany

*Topics in the History of Nineteenth- and Twentieth-century
Europe and Britain*

Mr. Silvera

Europe and the Near East

Topics in Modern European History

American and British History

Mr. Dudden

The New Deal and The Great Society

The United States in the World of the Twentieth Century

Mr. Tanis

Puritanism and the Great Awakening

Methodology and Historiography

Ms. Caplan

Recent Themes and Approaches in European Historiography

Mr. Krausz

Philosophy of History (offered in the Department of
Philosophy)

Mr. Salmon

Early Modern European Historiography

Political Ideas and Institutional History (emphasis on France)

Mr. Tanis

Historiography of the Reformation

African and Afro-American History

Mr. Johnson

African History

Afro-American History

SELECTED UNDERGRADUATE COURSES

- 301 *Topics in the History of Modern Architecture:*
 Mrs. Lane
- 303 *Topics in Recent U.S. History: The Great Society:*
 Mr. Dudden
- 312 *Medieval Cities:* Mr. Brand
- 320 *Rise of the Dutch Republic:* Mr. Tanis
- 321 *Golden Age of the Netherlands:* Mr. Tanis

- 328, 329 *Topics in Revolutionary Europe, 1789-1848:*
Mr. Silvera
- 333 *Topics in Afro-American History:* Mr. Johnson
- 336, 337 *Topics in African History:* Mr. Johnson
- 360 *England under the Tudors and Stuarts:* Mr. Salmon
- 368 *Topics in Medieval History: Popular Heresy:* Mr.
Brand
- 394 *Womens' Labors: England, 1830-1880:* Ms. Caplan
and Ms. Poovey (of Swarthmore College)
- 396, 397 *History of History, I and II:* Mr. Salmon

History of Art

*Professor of Classical and Near Eastern Archaeology and of
History of Art:* Phyllis Pray Bober, Ph.D. (on leave,
Semester II, 1985-86)

Andrew W. Mellon Professor in the Humanities:
Barbara Lane, Ph.D.

Fairbank Professor in the Humanities:
James Snyder, M.F.A., Ph.D.

Associate Professors: David Cast, Ph.D.
Dale Kinney, Ph.D.
Steven Z. Levine, Ph.D., *Chairman*
Gridley McKim-Smith, Ph.D.

J. Paul Getty Postdoctoral Fellow: Stephen Melville, Ph.D.

Field of Study. The history of western European art from late antiquity through the present; strong emphases on architecture, art theory and criticism, the classical tradition and its permutations, general methodology.

Prerequisites. Strong undergraduate training in art history or cognate disciplines such as history, classics, literature, or language; also reading knowledge of French, German, or Italian. Applicants should submit a sample of scholarly writing and research, as well as scores in the Aptitude Test of the Graduate Record Examinations.

Language Requirements. All students must demonstrate proficiency in German and one Romance language for the M.A. or Ph.D. degree. Proficiency may be demonstrated in one of two ways: by passing written translation examinations prepared by the department and taken under the supervision of the Graduate

School of Arts and Sciences; or by achieving scores in the sixtieth percentile or above on the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service, if the test is taken while the student is enrolled at Bryn Mawr or within twelve months prior to the student's initial enrollment. In addition, students specializing in medieval or Renaissance art must learn Latin.

Program and Examinations for the M.A. Six courses or units of independent work in art history; language examinations as above; an M.A. thesis, and a written examination to test the candidate's ability to place the thesis topic in a larger context.

Program and Examinations for the Ph.D. (1) Language examinations as for the M.A.; (2) six courses or units of independent work above the six required for the M.A.; courses may be taken in other departments at Bryn Mawr or at the University of Pennsylvania; students devise their own course programs with interdisciplinary focus on the field or period of art history in which they intend to find the subject of their Ph.D. dissertation; (3) written and oral Ph.D. preliminary examinations in four discrete fields, selected by the student with departmental consultation and approval; (4) a dissertation presenting an original thesis corroborated by primary research; the research nearly always is done abroad.

General Degree Requirements for the M.A. and the Ph.D. See pages 18-20.

Kress Program: The department participates in the Samuel H. Kress Foundation Fellowship Program. See page 90.

SEMINARS AND GRADUATE COURSES

Seminar topics change annually, in accordance with the direction of faculty members' current research. In addition to seminars, students may register for units of independent work on topics of particular interest to them individually. Recently offered seminars include:

Mrs. Kinney

Early Christian Ivories

The Iconography of Early Medieval Architecture

Mr. Snyder

Topics in Dutch Painting

Van Eyck

Mrs. Bober

Antiquity in the Renaissance

Mr. Cast
Problems in Renaissance Architecture
Vasari

Mrs. McKim-Smith
Velasquez
Interpretation of Technical Data

Mr. Levine
Realism
Monet

Mrs. Lane
Problems in Modern Architecture

SEMINARS FOR 1985-86:

Mrs. Kinney
Principles of Medieval Iconography

Mr. Snyder
Art of the Valois Courts

Mr. Cast
Historiography of Art

Mrs. McKim-Smith
Problems in Representation

Mr. Levine
Topics in Art Criticism

Mrs. Lane
Topics in the History of Modern Architecture

Human Development

*Professor: Emmy A. Pepitone, Ph.D., Director of
the Teacher Education Program*

*Associate Professor: Robert H. Wozniak, Ph.D., Chairman
and Director of Child Study Institute*

*Assistant Professors: Peter Goldenthal, Ph.D.
Leslie Rescorla, Ph.D.
Mary McCaslin Rohrkemper, Ph.D.*

Lecturer: Katherine Gordon-Clark, Ph.D.

The program emphasizes extensive knowledge of human development in a variety of social contexts to provide the foundation for

specialization in college teaching, research, and practice. The typical program of study includes research and field experience in educational and mental health settings as well as participation in seminars.

Bryn Mawr has program approval from the state of Pennsylvania for a curriculum sequence preparing candidates for certification in school psychology. Students who satisfactorily complete the approved program will, on recommendation of this department, receive the state certificate.

In addition to its general program and the school psychology curricular sequences, the department offers a program in clinical developmental psychology. This course of study requires sixteen units of work and a year's internship in an approved clinical setting. Students wishing to enter this program must apply specifically for admission to the department *and* to the program.

Prerequisites. An undergraduate preparation which must include work in general psychology and statistics. Students whose undergraduate training in psychology is not adequate will be required to take such undergraduate courses as seem necessary. Applicants for admission are asked to submit scores of the Graduate Record Examination Aptitude Test and a statement of their academic plans and goals. Deadline for applications is February 1.

Major and Allied Subjects. The department offers study in several areas: developmental, educational, social and clinical psychology. Within these four areas, the program provides for concentration in several fields based on the courses listed below. Detailed descriptions of fields are available upon request.

Language and Statistics Requirements. For both the M.A. and Ph.D., students are required to pass an examination in one modern foreign language and demonstrate competence in statistics and research design. The latter requirement may be satisfied by passing the course *Foundations of Research* at a satisfactory level. Language skills will be tested by the examinations administered by the Graduate School of Arts and Sciences.

Program and Examination for the M.A. Candidates will normally offer six units of graduate work in Human Development, although two of the six may be taken in an allied field. A paper embodying the results of independent research is required. The final examination consists of two three-hour written examinations, one in each field offered, and a one-hour oral examination on the M.A. paper.

Program and Examination for the Ph.D. Candidates, other than those enrolled in the clinical developmental program, will normally

offer twelve units of graduate work in Human Development although units may be taken in allied fields. The preliminary examinations consist of a four-hour written examination in each of four fields. Field examinations are given once each semester. The dissertation requires independent research. The final examination is an oral examination devoted to the dissertation and the field in which it has been written.

General Degree Requirements for the M.A. and the Ph.D. See pages 18-20.

The Phebe Anna Thorne School and the Child Study Institute. The Phebe Anna Thorne School is maintained by the department as a laboratory nursery school for normal children where students may observe and assist in the program for three- and four-year-olds. For those preparing for teaching or clinical work with children, the school provides opportunity for direct experience with early childhood development.

The department also operates the Child Study Institute, a mental health center where problems of learning and behavior are studied and therapy carried out with parents and children. Services are provided by a staff of qualified specialists in child psychiatry, psychology, school counseling, and remedial teaching. Advanced students participate at various levels of responsibility. Referrals from the schools, from physicians, social agencies, and families give students the opportunity for acquaintance with a diversity of clinical material.

A separate building on the college grounds houses the department, the Thorne School, and the Institute, with rooms equipped for nursery school teaching and for individual examination of pupils, remedial teaching, individual and group therapy, and student observation.

SEMINARS

The seminars offered are selected from the following. Some seminars are offered in alternate years; some are offered on demand. Laboratory and practica are required in many courses.

Mr. Goldenthal

Personality Theory

Psychotherapy Methods

Ethical and Clinical Issues in Psychotherapy

Topics in Psychotherapy Theory and Practice

Ms. Rescorla

Advanced Theory and Practice in Clinical Evaluation

Social and Emotional Disorders
Development in Early Childhood

Ms. Pepitone

Social Theories
Advanced Social Psychology
Social Issues in Education
Family Theory
History and Philosophy of Western Education

Ms. Rohrkemper

Foundations of Research
Educational Psychology

Mr. Wozniak

Life-span Developmental Processes
Advanced Development Theory
Study of Human Development in Historical Perspective

Members of the Department

Clinical Evaluation
Cognitive Disorders

SELECTED UNDERGRADUATE COURSES

- 202 *The Social Foundations of Education*: Ms. Pepitone
203 *Educational Psychology*: Ms. Rohrkemper
204 *History and Philosophy of Education*: Ms. Pepitone
207 *Adolescent Development*: Ms. Rohrkemper
301 *Principles of Teaching in the Secondary School*: Ms. Travers
(at Swarthmore)

The Principles of Teaching in the Secondary School course satisfies the student teaching requirement of most states. Plans for registration should be made with the director of the teacher education program before the student expects to take the course, since there are prerequisites to be met.

Latin

Professors: Julia Haig Gaisser, Ph.D., *Chairman* (on leave, 1985-86)
Russell T. Scott, Ph.D. (on leave, 1985-86)
Myra L. Uhlfelder, Ph.D., *Acting Chairman*

Assistant Professor: David Potter, Ph.D.

Lecturer: Elizabeth Block, Ph.D.

Prerequisites. An undergraduate major or minor consisting of at least three years of Latin in college. All graduate students in Latin are expected to have begun the study of Greek. Scores in the Aptitude Test of the Graduate Record Examinations should be submitted.

Allied Subjects. The department recommends as allied subjects: Greek, classical archaeology, ancient history, linguistics or, for students whose special interest is in the medieval period, medieval history or a vernacular literature.

Language Requirements. French and German are required for both the M.A. and the Ph.D. Language skills will be tested by examinations administered by the Graduate School of Arts and Sciences. Candidates for advanced degrees must also demonstrate satisfactory competence in Latin composition by examination or course work.

Program and Examination for the M.A. Candidates will normally offer four units of work in Latin and two units in an allied field. Candidates must pass a test in Latin sight translation and complete the M.A. paper before being admitted to the final examination. The final examination consists of a three-hour written and a one-hour oral examination on the field of the M.A. paper.

Program and Examinations for the Ph.D. Candidates will normally complete a two-year program of eight units of work in Latin and four in an allied field. Six of these units may be offered for the M.A. degree, which usually forms part of the doctoral program. Candidates should then undertake a program of independent reading planned to enable them to pass the preliminary examinations as soon as possible, after which they will concentrate on the dissertation. In some cases it may be advisable to carry two to four more units of work in the third year. The preliminary examinations consist of two four-hour written papers on Latin literature; one four-hour written paper on a special field such as a particular period of Roman history, the works of a special author, medieval Latin literature, or the history of classical scholarship; one four-hour written paper in the field of the allied subject and a general oral examination. Students whose major interest is in the medieval period will take the two examinations in Latin literature, one in medieval Latin literature, and a fourth in a field related to the Middle Ages or to the transmission of the classics. Before admission to the preliminary examinations, all students must pass tests in sight translation of Latin and Greek. The final examination is devoted to the dissertation and the field in which it has been written.

Fellowships for Excellence in the Classics. In addition to the regular fellowships and scholarships, three special Fellowships for Excellence in the Classics are awarded each year on the recommendation of the Classical Committee to new students in the Departments of Classical and Near Eastern Archaeology, Greek, and Latin.

Classical Languages and Classical Studies. For M.A. and Ph.D. degrees in both Greek and Latin and in combinations of either or both languages with Classical Archaeology, see Classical Languages and Classical Studies.

General Degree Requirements for the M.A. and the Ph.D. See pages 18-20.

SEMINARS AND GRADUATE COURSES

The program includes a wide range of courses in classical and medieval literature and civilization. Seminar topics are determined for each semester in consultation with the graduate students. The seminars marked with an asterisk will be offered in the first semester of 1985-86.

Ms. Block

*Vergil's Aeneid**

Mrs. Gaisser

Roman Elegy

Vergil: the Aeneid

Lucretius

The Alexandrian Tradition in Roman Poetry

Mr. Potter

*Late Julio-Claudian and Flavian Literature**

Problems and Methods in Roman History

Tacitus

Mr. Scott

Roman Politics of the First Century, B.C.

Roman Biography

Early Rome

Imperial History

Roman Satire

Miss Uhlfelder

Augustine and the Classical Tradition

Boethius

Literature of the High Middle Ages

Late Imperial Literature

Classical Rhetoric

Ciceronian Dialogues

SELECTED UNDERGRADUATE COURSES

(offered in 1985-86)

- 205 *Latin Style*: Ms. Block
303 *Lucretius*: Miss Uhlfelder
305 *Livy and the Conquest of the Mediterranean*: Mr. Potter

Mathematics

Professors: Frederic Cunningham, Jr., Ph.D., *Chairman*
Mario Martelli, Ph.D. (on leave, 1985-86)

Associate Professor: Rhonda J. Hughes, Ph.D.

Assistant Professors: Paul Melvin, Ph.D. (on leave, 1985-86)
Kyewon Park, Ph.D.
Rodica Simion, Ph.D.

Lecturer: Antoinette Trembinska, Ph.D.

For the 1986-87 year, the Department of Mathematics will accept applications from those students who wish to work toward the M.A. In exceptional cases, Ph.D. applications may be considered after prior consultation with the chairman of the department. A limited amount of financial aid is available in the form of tuition scholarships and teaching assistantships. This aid is available for both full-time and part-time students.

Prerequisites. Strong undergraduate preparation and three letters of recommendation are required. Since the program is small only the very best candidates can be admitted. Applicants are therefore urged to consult the chairman and seek a personal interview with the members of the department whenever possible.

Major and Allied Subjects. Students may specialize in any of the broad divisions of mathematics: algebra, analysis, topology, or applied mathematics but are expected also to acquire a well-rounded knowledge of the subject as a whole. Certain courses in physics, chemistry, or philosophy (logic) are accepted as allied work.

Special Skills Requirements. For both the M.A. and the Ph.D. degree one foreign language is required, normally French, German, or Russian. For the Ph.D. degree an additional foreign language or proficiency in computing is required. Language and computer skills will be tested by examinations administered by the Graduate School of Arts and Sciences or may be demonstrated by the satisfactory completion of appropriate courses approved by the department.

Any foreign language, other than the ones listed above, must be approved by the department.

Program and Examination for the M.A. The program consists of four units of work in mathematics and two additional units in mathematics or an allied field. Advanced undergraduate courses which supplement the student's preparation may under certain conditions be taken for graduate credit. An M.A. paper is required. The final examination is both written and oral. The written part is three hours long and will include only material ordinarily covered in upper-level undergraduate mathematics courses. The oral part is one hour long and will cover material in the candidate's special field.

Program and Examinations for the Ph.D. Candidates will take such courses and seminars as are needed to provide a sufficiently broad foundation. As they progress they will devote an increasing portion of their time to individual study and research under the direction of a member of the department. The preliminary examinations are taken after the student is well advanced and usually consist of three or four written examinations intended to test the candidate's breadth of knowledge and understanding of the structure of mathematics as a whole. An oral examination is usually included. The final examination is oral and is devoted to the candidate's special field and the subject of the dissertation.

General Degree Requirements for the M.A. and the Ph.D. See pages 18-20.

SEMINARS AND GRADUATE COURSES

The work of the graduate program consists primarily of reading and research under the direction of members of the department. Seminars are offered in selected topics in response to the needs and interests of students and faculty. Students are also encouraged to take advantage of the reciprocity agreement with the University of Pennsylvania (See page 16).

Mr. Cunningham

Real and Complex Analysis

Functional Analysis

General Topology

Linear Spaces

Harmonic Analysis

Ms. Hughes

Real and Complex Analysis

Measure Theory
Banach Algebras
Linear Operators
Mathematics of Quantum Physics

Mr. Martelli

Real and Complex Analysis
Differential Equations
Dynamical Systems
Applied Mathematics
Non-linear Functional Analysis

Mr. Melvin

Differential Topology
Algebraic Topology
Topology of Manifolds
Transformation Groups
Knot Theory

Ms. Park

Ergodic Theory
Dynamical Systems
Number Theory
Information Theory
Stochastic Control Theory

Ms. Simion

Combinatorial Analysis
Graph Theory
Theory of Partially Ordered Sets

Ms. Trembinska

Complex Analysis
Entire Functions

SELECTED UNDERGRADUATE COURSES

- 301, 302 *Introduction to Real Analysis*
303 *Introduction to Abstract Algebra*
304 *Topics in Algebra*
308, 309 *Applied Mathematics*
311 *Differential Equations*
312, 313 *Topology*
319 *Dynamical Systems*
320, 321 *Real Analysis*
322, 323 *Theory of Functions of a Complex Variable*

Philosophy

Professors: George L. Kline, Ph.D.

Michael Krausz, Ph.D.

Jean A. Potter, Ph.D.

George E. Weaver, Jr., Ph.D., *Chairman*

Assistant Professor: Robert J. Dostal, Ph.D.

Professor of Political Science: Stephen G. Salkever, Ph.D.

For the 1986-87 year, the Department of Philosophy will accept applications from those students who wish to work toward the M.A. Applications from those who wish to work toward the Ph.D. may be considered but only in exceptional cases and such students should consult the chairman of the department before submitting an application. A limited amount of financial aid is available in the form of tuition scholarships and teaching assistantships. This aid is available for both full-time and part-time students.

Prerequisites. In general, an undergraduate major in philosophy is required. Students whose undergraduate training does not include a major in philosophy may be required to take such undergraduate courses as the department considers necessary. All applicants are required to submit scores in the Aptitude Test of the Graduate Record Examinations.

Allied Subjects. Subjects in most fields of the humanities, mathematics, and natural and social sciences.

Language Requirements. One modern language for the M.A., French and German for the Ph.D. At the discretion of the department, another language may be substituted for French or German when the student's research requires it.

Language proficiency will be tested by examinations administered by the Graduate School of Arts and Sciences. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

Program and Examination for the M.A. Six units of work in philosophy or in philosophy and an allied field. The final examination is usually written and four hours in length.

Program and Examinations for the Ph.D. All students must demonstrate competence in logic before receiving the Ph.D. This requirement may be met in several ways: by successful completion, before admission to candidacy, of an intermediate course or

graduate seminar in logic; or by special examination before admission to candidacy; or by passing a preliminary examination in the systematic field of logic. The preliminary examinations will consist of four written examinations, two of which are to be in systematic fields and two in authors or periods.

Students are expected to bring to the program or develop while in residence, the following areas of competence: (1) the history of philosophy from the Ancients through Kant, excluding medieval philosophy; (2) the systematic areas of value theory (at least one of ethics, political philosophy, and aesthetics), metaphysics, epistemology, and logic. Students who, in the department's opinion, are weak in one of these areas may be asked to take appropriate courses or seminars. In addition, students are expected to develop four areas of special competence. These areas are tested by preliminary examination.

General Degree Requirements for the M.A. and Ph.D. See pages 18-20.

Graduate Philosophy Colloquium. Graduate students are encouraged to participate in the monthly meetings of the graduate Philosophy Colloquium. Papers are read by faculty and students of Bryn Mawr as well as visiting lecturers. In addition, both the Fullerton Club and the Philadelphia Logic Colloquium hold their monthly meetings at Bryn Mawr and the graduate students are invited to attend.

Greater Philadelphia Philosophy Consortium. The Department of Philosophy is a member of the Greater Philadelphia Philosophy Consortium of Bryn Mawr College, Temple University, University of Pennsylvania, and Villanova University. Under the terms of this arrangement, graduate students in good standing in any of these institutions may enroll in philosophy courses, without extra fee, at any participating institution, subject to the regulations of their home department.

SEMINARS

All seminars run through the entire year. The choice of seminars to be offered in a particular year depends in part on the interests of the students.

Mr. Dostal

Phenomenology: Husserl

Kant: Critique of Pure Reason and Critique of Judgment

Heidegger

Hermeneutics

Mr. Kline

Ethics

Hegel: Phenomenology of Spirit and Philosophy of Right
Whitehead

Mr. Krausz

Aesthetics

Philosophy of History

Philosophy of Science

Epistemology

Miss Potter

Continental Rationalism

Medieval Philosophy

Philosophy of Religion

History of Philosophic Concepts

Mr. Salkever

Aristotle

Political Philosophy

Mr. Weaver

Logical Theory

Introduction to Mathematical Logics

Homogeneous Universal Models

SELECTED UNDERGRADUATE COURSES

- 310 *Philosophy of Science*: Mr. Krausz
- 311 *Philosophy of Religion*: Miss Potter
- 312 *Philosophy of History*: Mr. Krausz
- 316 *Philosophy of Mathematics*: Mr. Weaver
- 317 *Philosophy of Creativity*: Mr. Krausz
- 318 *Philosophy of Language*: Mr. Weaver
- 330 *Kant: Critique of Pure Reason*: Mr. Dostal
- 331 *Hegel*: Mr. Dostal, Mr. Kline

Physics

Professors: Alfonso M. Albano, Ph.D. (on leave, Semester II,
1985-86)

John R. Pruett, Ph.D.

Associate Professors: Neal B. Abraham, Ph.D., *Chairman*
Peter A. Beckmann, Ph.D.

Lecturers: Teymour Darkhosh, Ph.D.
Michael Sivertz, Ph.D. (on joint appointment
with Haverford College)

Postdoctoral Research Affiliate: Jorge R. Tredicce, Lavrea in Fisica

Fields of Study and Research. The graduate program is designed to give students a broad background in physics and a high degree of expertise in a chosen field of research. Seminars and original research are tailored to meet individual needs and goals, which can include interdisciplinary studies, teaching, and applied research, as well as pure research in theoretical and experimental physics. In theoretical physics, the present research activities in the department involve non-equilibrium thermodynamics, nuclear and electron spin interactions, solid-solid phase transitions, photon statistics and gas laser theory, and nonlinear dynamics. In experimental physics, present activities include nuclear spin relaxation studies in molecular solids using pulsed nuclear magnetic resonance, studies of gas lasers including intrinsic noise and dynamical instabilities, and coherence measurements in quantum optics. Opportunities exist for research in interdisciplinary fields.

Prerequisites. An undergraduate major in physics or in a field of study closely allied to physics (e.g., mathematics, chemistry, engineering). Students who have not majored in physics will usually find it necessary to take some undergraduate courses before entering graduate courses and seminars. All applicants for admission to graduate work in physics are requested to submit scores in the Aptitude Test and Advanced Test of the Graduate Record Examinations.

Special Skills Requirements: Candidates for the M.A. degree must demonstrate skill in either computing or a foreign language. Candidates for the Ph.D. degree must demonstrate skill both in computing and in a foreign language. To demonstrate skill in computing, a student either must pass satisfactorily a course in computing approved in advance by the department or must write a satisfactory new computer program and pass an examination set by the department. To demonstrate skill in a foreign language, a student must pass an examination set by the department and under the supervision of the Graduate School of Arts and Sciences. The examination involves translation (with dictionary) into English of articles on subjects in physics. Examinations will be given in French, German, or Russian (or some other language by special permission of the department). Alternatively, entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

Qualifying Examination. An oral qualifying examination must be passed by all graduate students. The subject matter of the examination, which is normally taken in the first semester of graduate work, will include only material ordinarily covered in undergraduate physics courses.

Program and Examinations for the M.A. The qualifying examination discussed above must be taken during the first year. The six units of work offered for the degree must include the quantum mechanics course and will ordinarily include two units of experimental physics. The paper will usually consist of a report on a special field related to one of the seminars or units of graduate work offered for the M.A. The M.A. examination is a one-hour oral examination.

Program and Examinations for the Ph.D. Each student is normally expected to have completed the graduate courses in quantum mechanics and electromagnetic theory, or their equivalents, must have a mathematical preparation acceptable as adequate for the Ph.D. degree, and must have passed the oral qualifying examination described above before being recommended for candidacy.

The preliminary examinations are intended to test the candidate's general background and to determine whether it is broad and deep enough to serve as a preparation for original research work in a specialized field. In general, two years of full- or part-time graduate work should prepare the student for these examinations, and candidates for the Ph.D. are urged to submit themselves for examination at this stage of their work. The examinations will consist of three four-hour written examinations, one problem set, and an oral examination lasting approximately one hour. The three four-hour examinations will cover the following fields of physics: classical mechanics, special relativity, electromagnetic theory, optics, quantum mechanics, atomic physics, molecular physics, solid state physics, nuclear physics, thermodynamics, and statistical mechanics. The student devotes approximately twelve hours to direct work on the problem set over a three-day period. Any books, periodicals, notes, etc., may be used in connection with the problem set. The oral examination is devoted to general physics.

Unless the candidate has demonstrated adequate acquaintance with experimental physics in other ways, either the research leading to the dissertation must be, at least in part, experimental or the candidate must take a seminar in experimental physics. The final examination will be devoted to the dissertation and the field in which it has been written.

Research Requirement Active engagement in research and the

development of advanced research skills are required for a graduate degree in physics. This research requirement may be met in various ways including registration for units of independent research, registration for supervised research on the dissertation topic, participation in a research project as a formally designated research assistant, or a combination of these.

General Degree Requirements for the M.A. and Ph.D. See pages 18-20.

Colloquium. All members of the department, including graduate students, meet weekly for the discussion of current problems.

GRADUATE COURSES

Year-long graduate courses (two units) in quantum mechanics and electromagnetic theory are offered every year. Although both are normally taken in the first year, one or, if necessary, both may be delayed a year if it is felt that the student requires prior work at the level of advanced undergraduate courses. Students who have taken equivalent graduate courses elsewhere may be exempted.

Quantum Mechanics

Mathematical formalism of matrix and wave mechanics; the Schroedinger, Heisenberg, and Interaction Approaches; time-independent and time-dependent perturbation theory; semiclassical theory of radiation; the density matrix; Dirac's relativistic wave equation.

Electromagnetic Theory

Electrostatics, magnetic fields of constant current, Maxwell's equations and their applications, electromagnetic fields of time-varying current and of moving charges and radiation of electromagnetic waves.

SEMINARS

The seminars reflect both the research activities of the faculty and the research interests of the students. As a result, contents are flexible and are chosen to satisfy the needs of individual students and to incorporate recent developments in each field. Seminars may cover either one or two semesters (one or two units). Those listed below are intended only to be representative, offerings in any given year being determined by student needs. Under the Reciprocal Plan, students may also take graduate courses at the University of Pennsylvania. See page 16.

Mr. Abraham
Quantum Optics
Laser Physics
Non-linear Phenomena

Mr. Albano
Statistical Mechanics
Dynamical Systems
Advanced Quantum Mechanics

Mr. Beckmann
Solid State Physics
Magnetic Resonance

SELECTED ADVANCED UNDERGRADUATE COURSES

- 301 *Elementary Quantum Mechanics*
- 302 *Quantum Mechanics and Applications*
- 303 *Statistical and Thermal Physics*
- 304 *Advanced Topics in Physics*
- 305 *Advanced Electronics*
- 306 *Mathematical Physics*
- 307 *Solid State Physics*
- 308 *Advanced Classical Mechanics*
- 309 *Advanced Electromagnetic Theory*
- 331 *Modern Physics Laboratory*

Psychology

Professors: Richard C. Gonzalez, Ph.D., *Chairman (on leave, Semester I, 1985-1986)*

Howard S. Hoffman, Ph.D. (on leave, Semester I, (1985-1986)

Earl Thomas, Ph.D.

Matthew Yarczower, Ph.D., (*Acting Chairman, Semester I, 1985-1986*)

Associate Professor: Clark McCauley, Jr., Ph.D.

Assistant Professor: Virginia Mann, Ph.D.

Prerequisites. Undergraduate training in psychology is recommended, but outstanding applicants with training only in related fields may be accepted. Students who have not majored in

psychology as undergraduates may find it necessary to devote a substantial portion of the first year to undergraduate courses. All applicants must submit scores on the Aptitude Test and Advance Test of the Graduate Record Examinations.

Major and Allied Subjects. The orientation in the various fields is experimental, and there are no facilities for clinical training. Work in psychology may be coordinated with work in one of the following allied areas: anthropology, biology, chemistry, mathematics, philosophy, and physics.

Language Requirements and Special Skills Options. Candidates for the M.A. must pass an examination in one foreign language (French, German, Russian, or Spanish) or demonstrate satisfactory knowledge of statistics.

Candidates for the Ph.D. must offer two foreign languages: French and German (or some other foreign language with permission of the department) or one foreign language and statistics. The statistics requirement may be fulfilled by passing an approved graduate course in statistics or by an examination administered by the department. Language skills will be tested by the examinations administered by the Graduate School of Arts and Sciences.

Research Requirement: Active engagement in research and the development of advanced research skills are required for a graduate degree in Psychology. This research requirement may be met in various ways, including registration for units of independent research, registration for supervised research on the dissertation topic, participation in a research project as a formally designated research assistant, or a combination of these.

Program and Examination for the M.A. The program of work must include six one-semester seminars or courses which usually will be chosen from the group of seminars and courses listed below. Before final approval of the Master's paper, each candidate must pass a written examination in statistics. The final oral examination, one hour in length, deals with the Master's paper and related topics.

Program and Examinations for the Ph.D. Ph.D. candidates are expected to devote a large portion of their time to supervised research. In the first year, the research is done under the close supervision of the candidate's faculty adviser; a written report of the year's research activities (the form and content of which are determined by the candidate and his or her adviser) is submitted to the department, and an oral presentation based on the report is made to the faculty and graduate student members of the department. In addition to research, candidates, in their first two years of

residence, take the six one-semester graduate courses listed below (or if they elect to do so, a written examination in the subject matter instead of any one or all of the courses). The preliminary examinations, which should be taken early in the third year, consist of three written area-examinations of four hours each and a paper which either synthesizes a major area of research in psychology or develops a theoretical analysis of a major problem or issue in psychology. The three area-examinations must be completed within four weeks; the entire set of examinations (including the paper) must be completed within six months. The three four-hour examinations are in the following areas: learning and motivation, physiological psychology, social psychology, cognitive processes or, with the approval of the department, in two of these areas and in one of the allied subjects listed above. (The area of comparative psychology as such is not represented in a separate examination; comparative issues are treated in each of the other area-examinations.) The topic of the paper is developed initially by the student and her or his adviser and submitted to the department for approval.

General Degree Requirements for the M.A. and the Ph.D. See pages 18-20.

GRADUATE COURSES

- Mr. Gonzalez
Learning Theory
- Mr. Hoffman
Statistics
- Miss Mann
Cognitive Processes
- Mr. McCauley
Experimental Social Psychology
- Mr. Thomas
Physiological Psychology
- Mr. Yarczower
Comparative Psychology

SEMINARS

Seminars are offered periodically on specialized topics in the areas of experimental, cognitive, comparative, developmental, physiological, and social psychology. Among those offered most recently are the following: *Emotion, The Limbic System, Neuro-*

physiology of Learning, Physiological Techniques and Instrumentation, Psychopharmacology, Comparative Neuroanatomy, Sensory Processes, Measurement and Test Theory, Advanced Topics in Learning Theory, Current Problems in Pavlovian Conditioning, Psycholinguistics, Evolutionary and Psychopathological Aspects of Aggression.

SELECTED UNDERGRADUATE COURSES

- 201 *Learning Theory and Behavior*: Mr. Gonzalez
- 202 *Comparative Psychology*: Mr. Yarczower
- 204 *Sensation and Perception*: Mr. Hoffman
- 206 *Developmental Psychology*: Miss Mann
- 218 *Physiological Psychology*: Mr. Thomas
- 393 *The Comparative Psychology of Learning*: Mr. Gonzalez
- 394 *Cognitive Disorders*: Miss Mann
- 395 *Psychopharmacology*: Mr. Thomas
- 398 *Cognitive Issues in Personality and Tonal Psychology*:
Mr. McCauley

Russian

Professors: Dan E. Davidson, Ph.D., *Chairman*
Ruth L. Pearce, Ph.D. (on leave, 1985-1986.)

Associate Professors: Sergej Davydov, Ph.D.
George S. Pahomov, Ph.D.

Professor of Philosophy: George L. Kline, Ph.D.

Lecturer: Nina M. Baranova, M.A.

Visiting Lecturers: Richard D. Brecht, Ph.D.
Petr G. Chebatarev, Kand. (USSR)

Prerequisites. An undergraduate major in Russian or an equivalent preparation with some work in literature. Applicants should submit a brief biography written in Russian and at least one essay written in English on a literary topic. The English essay may have been written for an advanced undergraduate course or graduate seminar previously taken.

Allied Subjects. Any language or literature, economics, Russian history, political science, Russian philosophy.

Language Requirements. For the M.A., French or German. For the Ph.D., French, German, and one Slavic language other than Rus-

sian. Language skills will be tested by examinations administered by the Graduate School of Arts and Sciences. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

Program and Examination for the M.A. Six units of work in Russian or in Russian and an allied field. The final examination consists of a three-hour written examination and an oral examination of one hour.

Examinations for the Ph.D. The preliminary examinations consist of four written papers, one of which must be taken in an allied field, and an oral examination. The final examination will be devoted to the dissertation and the field in which it has been written.

Students are encouraged to study and do research abroad whenever appropriate and feasible. Opportunities for graduate study are provided under the terms of exchange agreements between Bryn Mawr College and the Pushkin Institute of the Russian Language in Moscow.

General Degree Requirements for the M.A. and the Ph.D. See pages 18-20.

SEMINARS AND GRADUATE COURSES

Seminars offered each year are selected in accordance with the needs and interests of the students enrolled. Normally the same seminar is not given in two successive years. In cooperation with the Department of Slavic Languages of the University of Pennsylvania, the student may also register at that institution under the Reciprocal Plan (see page 16) for two units of work chosen from the graduate courses offered in Slavic. Undergraduate 300-level courses, with additional work, may also be offered for graduate credit.

Mr. Davidson

Karamzin and Early Romanticism

Old Russian Literature

Russian Language: Structure and Teaching Methodology

Russian Prose of the Early Modern Period

Versification

Mr. Davydov

Symbolism, Futurism, Acmeism

Poetics of Short Narrative Fiction

Russian Modernism

The Art of Vladimir Nabokov

Mr. Pahomov

Chekhov

Classics of Russian Drama from Fonvizin to Chekhov

Russian Romanticism

The Russian Short Story: Karamzin to Chekhov

Turgenev and Goncharov

Mrs. Pearce

History of the Development of the Russian Literary Language

History of the Russian Language: Phonology and Morphology

Old Church Slavic: Phonology and Morphology

Readings in Old Church Slavic

Studies in the Structure of Russian

Mr. Kline

Theory and Practice of Literary Translation

SELECTED UNDERGRADUATE COURSES

303, 304 *Twentieth-century Russian Literature*

305, 306 *Advanced Stylistics and Composition*

307, 308 *Russian Prose and Poetry of the Nineteenth Century*

Philosophy 333, 334 *Russian Philosophy*

Sociology

Professors: Judith R. Porter, Ph.D., *Chairman*

Eugene V. Schneider, Ph.D.

Associate Professor: Robert E. Washington, Ph.D.

Assistant Professor: David Karen, Ph.D.

For the 1986-87 year, the Department of Sociology will accept applications from those students who wish to work toward the M.A. Applications from those who wish to work toward the Ph.D. may be considered but only in exceptional cases and such students should consult the chairman of the department before submitting an application. A limited amount of financial aid is available in the form of tuition scholarships and teaching assistantships. This aid is available for both full-time and part-time students.

Prerequisites. An undergraduate preparation in sociology or some closely related social science is desirable. Students whose undergraduate training is not entirely adequate may be required to take certain undergraduate courses.

Major and Allied Subjects. Students may wish to take some work in related fields: anthropology, economics, psychology, political science, history, and statistics. In addition, courses in sociology and allied subjects may be taken at the University of Pennsylvania under the terms of the Reciprocal Plan (see page 16).

Language and Statistics Requirements. Candidates for the M.A. must offer one modern foreign language and statistics. Candidates for the Ph.D. degree must offer two modern foreign languages (usually French and German) or one modern foreign language and statistics. The statistics requirement will be tested by the department or may be met by passing a graduate course in statistics.

Language skills will be tested by the examinations administered by the Graduate School of Arts and Sciences. Entering students may offer scores of the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service taken within twelve months of the date on which they begin graduate work at Bryn Mawr College.

Program and Examinations for the M.A. The program consists of six units of work. The final examination may consist of one four-hour written paper, or one three-hour written paper and an oral examination of one hour.

Program and Examinations for the Ph.D. The program consists of twelve units of work. The preliminary examinations for candidates for the Ph.D. will consist of four three-hour written papers and an oral examination of one hour. These examinations will be in general sociology, sociological theory, and two special fields, one of which may be an allied field. The final examination will be devoted to the dissertation and the field in which it has been written.

General Degree Requirements for the M.A. and the Ph.D. See pages 18-20.

SEMINARS

Seminars will be given in special branches of sociology, such as:

Sociological Theory	Sociology of Poverty
Social Stratification	Political Sociology
Sociology of Religion	Sociology of Developing
Personality and	Countries
Social Structure	Sociology of the Family
Sociology of Knowledge	Social Change
Industrial Sociology	Research Design and
Race Relations	Statistical Analysis
	Sociology of Education

UNDERGRADUATE COURSES

Under exceptional circumstances a student may be registered for an advanced undergraduate course which with additional work may be accepted for graduate credit.

Spanish

Professors: Willard F. King, Ph.D., *Chairman*
Eleanor K. Paucker, Ph.D.

Assistant Professor: Enrique Sacerio-Garí, Ph.D.

For the 1986-87 year, the Department of Spanish will accept applications from those students who wish to work toward the M.A. Applications from those who wish to work toward the Ph.D. may be considered but only in exceptional cases and such students should consult the chairman of the department before submitting an application. A limited amount of financial aid is available in the form of tuition scholarships and teaching assistantships. This aid is available for both full-time and part-time students.

Prerequisites. An undergraduate major in Spanish (or the equivalent) which includes representative reading from both Spanish-American and Peninsular Spanish literature. Applicants for admission in Spanish are asked to submit scores on the Aptitude Test and Advanced Test of the Graduate Record Examinations. They should submit one essay written in Spanish for an advanced undergraduate course and are strongly advised to arrange for a personal interview with a member of the department.

Major and Allied Subjects. Students may specialize in any period of Spanish or Spanish-American literature. All Ph.D. candidates must complete one course in the history of the Spanish language. The following allied subjects are accepted: any literature, ancient or modern; European or Spanish-American history; classical or romance philology; history of art.

Language Requirements. For the M.A., either German or one Romance language other than Spanish. For the Ph.D., German and French; in special cases the department may accept other languages. Language skills will be tested by examinations administered by the Graduate School of Arts and Sciences. Entering

students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

Program and Examination for the M.A. The program consists of six units of graduate work in Spanish or four units of graduate work in Spanish and two others in an allied field. An M.A. paper on a topic related to the work in one of the seminars is required. The final examination consists of a three-hour written section and an oral of one hour, both in Spanish.

Program and Examinations for the Ph.D. Students must complete a minimum of twelve units of graduate work, three of which may be in an allied subject. The preliminary examinations consist of four tests written in Spanish on both Spanish and Spanish-American topics and an oral examination. Suitable fields for these examinations should be discussed with the chairman of the department. The final examination is oral and devoted to the dissertation and the field in which it has been written.

General Degree Requirements for the M.A. and the Ph.D. See pages 18-20.

SEMINARS

The seminars are arranged to allow the widest possible choice for students over a two- or three-year period of study. Four to six seminars are offered each year. Normally the same seminar will not be given two years in succession.

Mrs. King

Ideological Currents in Renaissance Spain

Cervantes

The Spanish Novel of the Sixteenth and Seventeenth Centuries

Seventeenth-century Drama

Modern Drama

Critical Approaches to Literature

Mrs. Paucker

Spanish Romanticism

The Urban Novel in Spain

Unamuno and Machado

The Novel of the Mexican Revolution

Gaucha Literature

Stylistics and Advanced Syntactic Analysis

Mr. Sacerio-Garí

Chroniclers of the New World

Borges and His Precursors

The New Latin American Novel

Modern Latin American Poetry
Avant-garde Literature: Theory and Practice

Members of the Department
The History of the Spanish Language
Topics in Medieval Literature
Topics in Golden Age Poetry

SELECTED UNDERGRADUATE COURSES

- 302 *Medieval Spanish Literature*: Mrs. Paucker
- 303 *The Modern Novel in Spain*: Mrs. King
- 307 *Cervantes*: Mrs. King
- 308 *Spanish Drama of the Golden Age*: Mrs. King
- 350 *Masters of the Short Story*: Mr. Sacerio-Gari
- 370 *Introduction to Hispanic Linguistics*

Appropriate graduate seminars at the *Centro de Estudios Hispánicos en Madrid* may be included in the program for the M.A. or the Ph.D. (see page 17).

Additional Programs in Arts and Sciences

The following departments and programs do not offer graduate courses, but their upper-level undergraduate courses may, with additional work, be taken for graduate credit.

Economics

Chairman: Richard Du Boff

German

Chairman: John R. Cary (Haverford College)

Growth and Structure of Cities

Chairman: Barbara Lane

History of Religion

Chairman: Samuel Lachs

Italian

Chairman: Nancy Dersofi

Music

Chairman: Isabelle Cazeaux

Political Science

Chairman: Stephen Salkever

Tuition and Fees 1985-86

These fees are in effect for the academic year 1985-86. Faced with the rising costs of higher education, the College has had to raise tuition (and some of its fees) in each of the last ten years. Further increases may be expected.

An application fee of \$30 is required of citizens of the United States and Canada and of foreign students presently in the United States. The application fee is waived for non-United States citizens living outside the United States.

Tuition

Full-time students:

6 academic units (3 courses per semester)	\$9065
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Part-time students:

4 academic units (2 courses per semester)	\$6050
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2 academic units (1 course per semester)	\$3025
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1 academic unit (1 semester course)	\$1515
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Continuing Enrollment (see page 15): \$275
per semester.

Auditors:

Fees for auditors are the same as those for students registered in courses for credit.

Bryn Mawr alumnae/i who have received one or more advanced degrees from Bryn Mawr College (M.A., M.S.S., M.L.S.P., Ph.D.) are entitled to take up to four units of work (four semester seminars) at one-half the normal tuition, subject to the following provisions:

1. Admission to all seminars must follow approved admissions procedures.
2. Specific seminars are open on a space-available basis.
3. Full tuition must be paid if the course is to be counted toward an advanced degree from Bryn Mawr College.

Payment of Fees

Tuition for each semester must be paid by the first day of classes or at the time of registration. Graduate students living at Glenmede, the graduate residence center, will be billed in advance of each semester and must pay for their rooms before the semester begins, or arrange for deductions to be made from their stipends. Penalties may be charged for late fees, and students whose fees are not paid will not be permitted to continue in residence or to attend classes. Degrees will not be awarded to any student owing money to any College facility, nor will any transcripts be issued. Questions concerning the payment of fees should be directed to the Office of the Comptroller.

Contingent Fees or Expenses

Application fee	\$ 30
Room in graduate student residence	2465
Health insurance (United States citizens)	215
Health insurance (foreign students-mandatory)	215
Late registration fee	15
Add and drop fee	15
(after the first week of a new semester)	
Graduation fee for all graduate degrees	50
Charge for microfilming Ph.D. dissertation	60

Meals

Students wishing to eat in the College dining halls on the main campus may buy meal tickets. Students living at Glenmede, the graduate residence center, can either prepare their own meals in the kitchen facilities which are provided in each residential unit at Glenmede, or buy individual meal tickets, or contract for the full meal plan for the College dining halls on the main campus. In 1985-86, the full meal plan is \$1670 for the academic year.

Refund Policy

In the event of withdrawal from the Graduate School of Arts and Sciences, refunds will be made according to the following schedule:

During the first and second weeks of the semester: 75 %

During the third through sixth weeks of the semester: 50 %

After the sixth week of the semester: no refund

For students living at Glenmede, the graduate residence center, the charge for residence is \$2465 in 1985-86. In the event that a student wishes to leave Glenmede, a partial refund will be made only as and if the College is able to reassign the space to someone else not currently living at Glenmede. Students themselves may not dispose of rooms assigned to them, and a signed room contract is a commitment for the entire year.

Procedure for Securing Refunds

Written notice must be received by the Dean at least one week prior to the effective date of withdrawal. Students who have received loans under NDSL or GSL to meet any educational expenses for the current academic year must make an appointment with the loan officer before leaving the campus to arrange for appropriate repayment of the loans in question.

Students' Rights and Responsibilities

Equality of Opportunity

Bryn Mawr College does not discriminate on the basis of race, color, national or ethnic origin, religion, sexual preference, age, or handicap in administration of its educational policies, admission policies, scholarship and loan programs, and athletic and other College-administered programs, or in its employment practices.

In conformity with the Civil Rights Act of 1964, as amended, it is also the policy of Bryn Mawr College not to discriminate on the basis of sex in its educational programs, activities, or employment practices. The admission of only women in the Undergraduate College is in conformity with a provision of the Act. Inquiries regarding compliance with this legislation and other policies regarding non-discrimination may be directed to the Equal Opportunity Officer who administers the College's procedures, Taylor Hall.

Family Educational Rights and Privacy Act of 1974

The Family Educational Rights and Privacy Act of 1974 was designed to protect the privacy of educational records, to establish the right of students to inspect and review their educational records, and to provide guidelines for the correction of inaccurate or misleading data through informal and formal hearings. Students have the right to file complaints with the Family Educational Rights and Privacy Act Office (FERPA), Department of Education, 5411 Switzer Building, 330 C Street S.W., Washington, DC 20201, concerning alleged failures by the institution to comply with the Act.

Questions concerning the Family Educational Rights and Privacy Act may be referred to the Office of the Graduate Dean.

Designation of Directory Information

Bryn Mawr College hereby designates the following categories of student information as public or "directory information." Such information may be disclosed by the institution for any purpose, at its discretion.

- | | |
|-------------|---|
| Category I | Name, address, dates of attendance, class |
| Category II | Previous institution(s) attended, major field of study, awards, honors, degree(s) conferred |

- Category III Date of birth
- Category IV Telephone number
- Category V Marital status

Currently enrolled students may withhold disclosure of any category of information under the Family Educational Rights and Privacy Act of 1974 by written notification which must be in the Office of the Recorder, Taylor Hall, by 5 p.m. on the second Friday in September. Forms requesting the withholding of "Directory Information" are available in the Office of the Recorder.

Bryn Mawr College assumes that failure on the part of any student to specifically request the withholding of categories of "directory information" indicates individual approval for disclosure.

Exclusion or Non-Continuation

In the case of unsatisfactory work, unsatisfactory progress toward the degree, or failure to pass the requirements for the M.A. or Ph.D. in timely fashion, the department may recommend the non-continuation or exclusion of a student to the Dean of the Graduate School of Arts and Sciences, who will notify the student of the decision. A decision not to continue or to exclude a student means that the academic programs and services of the College are no longer open to that student except in cases where the student is admitted, through the regular procedures, to another department.

If the student wishes to appeal the decision, the Council of the Graduate School of Arts and Sciences (including the President) will hear the student and the department; the decision of the Council of the Graduate School of Arts and Sciences and the President will be binding.

Successful completion of an M.A. at Bryn Mawr College does not insure departmental approval for continuation in graduate work toward the Ph.D.

A student whose behavior disrupts the normal conduct of academic affairs within or beyond his or her department may be excluded by the Dean, in consultation with the student's department. If the student wishes to appeal the decision, a committee constituted of no fewer than five persons, to include faculty members of the Council of the Graduate School of Arts and Sciences and representatives of the Graduate Student Association, will hear the student, the chairman of the department, and the Dean. The committee will make its recommendations to the President; the President's decision will be binding.

In cases of exclusion in the course of an academic year, fees will

not be refunded or remitted in whole or in part; fellowships, scholarships, and assistantships will be cancelled.

Student Responsibilities

Students are responsible for the fulfillment of all requirements indicated in this catalogue, including those of the departments in which they are enrolled. They should also consult the Graduate School bulletin boards for particular deadlines and should read carefully any information sheets which are distributed at registration time.

Grievance Procedure

A grievance procedure has been established for graduate students in Arts and Sciences at Bryn Mawr. The Grievance Committee is chaired by the Associate Dean of the Graduate School, who will supply copies of the procedure description upon request. The committee is composed of the Associate Dean, three members of the Graduate Council, and three student members selected by the Graduate Student Association.

Financial Aid and Merit Awards

Application

Applications for admission with financial aid and for financial aid for continuing students must be filed in accordance with the deadlines indicated in the calendar printed in this catalogue. New foreign student applications, in the case of individuals whose native language is other than English, must include scores of the Test of English as a Foreign Language (TOEFL) or the examination of the English Language Institute of the University of Michigan.

Graduate and Professional School Financial Aid Service

The Graduate School of Arts and Sciences is a participant in the Graduate and Professional School Financial Aid Service (GAPSFAS), administered by the Educational Testing Service, Princeton, New Jersey 08541. All applicants for financial aid

(whether fellowship, tuition award, or assistantship) must file a GAPS FAS form if they are U.S. citizens or permanent residents. Copies of the form are available locally in most colleges and universities or may be obtained by writing directly to Princeton. The completed form must be returned to the GAPS FAS office in Princeton by January 15. Note that information derived from these reports is not revealed to student's departments and in most instances does not affect the likelihood of receiving an award or an assistantship, but the ratings must be available to the College for certain loan programs and other purposes.

Fellowships and Scholarships

Fellowships and scholarships for work leading to the M.A. and Ph.D., are provided from the general funds of the College, from the gifts of alumnae/i and other generous donors, and from private foundations.

While students doing good work may expect continuity of support, there is an annual awards process and continuing as well as new students must submit a financial aid application each year. Upon recommendation from the individual departments in each case, the final decisions are then made by the Committee on Graduate Awards, a faculty committee of the Graduate School of Arts and Sciences.

Fellowships grant a stipend and tuition (full or partial, as appropriate). Scholarships grant tuition (full or partial, as appropriate). In making its decisions concerning continuing students, the Committee on Graduate Awards considers satisfactory rate of progress an integral component of merit.

Merit constitutes the primary criterion for Bryn Mawr College fellowships and scholarships, although relative financial need may be considered in the case of partial tuition scholarships and may affect the level of a fellowship stipend. When fellowships or scholarships carrying full tuition are awarded, it is assumed that the recipients will be concentrating fully on their graduate work and should expect to register for the full complement of six units in that year unless a lesser program has been approved by their department or specified in the letter of award.

Teaching and other Assistantships

Applicants to and continuing students in the Graduate School of Arts and Sciences wishing financial aid will be considered not only

for fellowships and scholarships but also for teaching and graduate assistantships. The duties connected with these appointments differ from department to department; in the sciences, teaching assistants assist in the laboratory sections. Teaching assistants receive tuition and a stipend competitive with national levels; graduate assistants, who typically serve as general departmental assistants, receive tuition and a modest stipend.

The Phebe Anna Thorne School for pre-school children operated in conjunction with the Department of Human Development, annually appoints two or three assistant teachers from amongst the department's graduate students. In addition, one internship in school psychology, with stipend, is offered annually in the Child Study Institute, affiliated with the department.

Research assistantships are frequently available in certain departments.

All assistants are expected to maintain good academic standing during their terms of appointment. In cases of academic exclusion (page 85) or non-fulfillment of duties, assistantships are cancelled.

Fellowship and Scholarship Funds

Among the special funds generously provided to Bryn Mawr College to assist in the support of graduate students in Arts and Sciences are the following:

Alumnae Regional Scholarship Committee Grants, from the Regional Committees of Cambridge, Massachusetts; New Haven, Connecticut; Princeton, New Jersey; Eastern Pennsylvania and Philadelphia; and Washington, D.C.

The Warren Akin IV Scholarship Fund for Graduate Students in English, established in 1984 as a memorial to Warren Akin IV, Ph.D. 1975.

The Marion Louise Ament Fellowship Fund, established in 1966 for graduate and undergraduate fellowships in Spanish in honor of Marion Neustadt, Class of 1944.

The Alice Gibson Brock Fellowship Fund, established by bequest in 1964, for the support of graduate fellowships.

The Elizabeth Eaton Butterfield Fund, established in 1978 for the support of graduate students as a memorial to Mrs. Butterfield, Class of 1935, founder and for many years president of the Bryn Mawr Book Sale of Cambridge, Massachusetts.

The Henry Joel Cadbury Fellowship Fund in the Humanities, established in 1973 in honor of Henry Joel Cadbury, trustee emeritus of the College, to provide support for advanced graduate students in the humanities.

The Bertha Reed Coffman Fellowship Fund, established in 1964 for graduate student support by bequest of Bertha Reed Coffman, a teaching fellow at the College in 1906-07.

The Elsie Lush Funkhouser Delafield Scholarship Fund, established in 1968 for graduate students in fields other than the arts who are judged most likely to use their talents for the country's benefit.

The Barbara Cooley McNamee Dudley Fund, established as a Centennial gift in honor of Barbara Cooley McNamee Dudley, Class of 1942, for aid to graduate and undergraduate students from foreign countries.

The Theodore N. Ely Fund, established in 1959 by bequest of Katrina Ely Tiffany, Class of 1897, to provide a fellowship or scholarship in archaeology or history of art. Awarded by the departments.

The Folly Ranch Fund, established in 1974 in honor of Eleanor Donnelley Erdman, Clarissa Donnelley Haffner, and Elizabeth P. Taylor, Class of 1921, and Jean T. Palmer, Class of 1924. The income is used for both graduate and undergraduate support.

The Grace Frank Fellowship Fund, established in 1979 in memory of Grace Frank, who taught French at Bryn Mawr from 1936 to 1951; the income is used to support fellowships for graduate students in the humanities.

The Margaret Gilman Fund, established in 1958 by bequest of Margaret Gilman, late professor of French at Bryn Mawr, for fellowship support in French.

The Howard Lehman Goodhart Fund, for the support of advanced graduate students in the humanities.

The Marguerite Bartlett Hamer Fund, established in 1979 by bequest of Marguerite Bartlett Hamer, A.B., 1915, M.A. 1917, to support graduate students in history.

The Nora M. Healy Scholarship Fund, established in 1984 in memory of Nora M. Healy, mother of Margaret M. Healy, Ph.D. 1969, and Nora T. Healy, M.S.S. 1973. The income is to be used for graduate students in Arts and Sciences or Social Work and Social Research.

The Helen Schaeffer Huff Memorial Research Fellowship Fund, established to support a year of research work in physics or chemistry at Bryn Mawr, with preference given (other qualifications being equal) to a field of research which overlaps chemistry and physics. Candidates who have not completed the work for the doctorate may exceptionally be considered, but the Huff Fellowship is normally awarded for post-doctoral work.

The Wheeler and Florence DeG. Jenkins Scholarship Fund, established in 1981 for graduate and undergraduate students in mathematics or physics.

The Anne Cutting Jones and Edith Melcher Fund, established in 1972 from the estates of Anne Cutting Jones (Ph.D., 1925) and Edith Melcher (A.B. 1923, M.A. 1924, Ph.D. 1928), for the support of both undergraduate and graduate students in French.

The Maude S. Kaemmerling Fund, established by bequest in 1959, for graduate fellowships and scholarships.

The Louise Kingsley Fund, established in 1972 by bequest of Louise Kingsley, Ph.D., 1931, for graduate fellowships and scholarships.

The Melodee Siegel Kornacker Fellowship Fund for Science, established in 1976, by Melodee Siegel Kornacker, Class of 1960, with the income to be used for graduate fellowships in biology, chemistry, geology, physics, or psychology.

The Samuel H. Kress Foundation Fellowship, awarded annually by the Department of History of Art to an advanced graduate student in that field.

The Mabel Gibson La Foy Fund, established in 1975 by Margaret La Foy Rossiter (M.A. 1938, Ph.D. 1941) in honor of her mother, to provide support for part-time students, with preference given to women students.

The Elizabeth R. Laird Fund, established in 1969 by bequest of Elizabeth R. Laird, Ph.D. 1901, for graduate student support.

The Katherine Elizabeth McBride Fellowship Fund, established by alumnae of the College in honor of Katherine McBride, President of Bryn Mawr from 1942 to 1970; the fellowship is awarded to a candidate for the Ph.D. in any department who is about to complete two or more years of graduate work.

The Emmy Noether Fellowship Fund, made possible by gifts from many donors in memory of Emmy Noether, who came to Bryn Mawr from Germany in 1933 and died in 1935; the fellowship is to be awarded by the Department of Mathematics for advanced graduate students in mathematics and, subject to the approval of

the department, may be used at any institution in the United States or in a foreign country.

The Bertha Haven Putnam Fellowship Fund, established in 1960 to support graduate work in history.

The Max Richter Fellowship Fund, established in 1962 and increased in 1965 through gifts from the Richter Memorial Foundation, to provide support to advanced students interested in public affairs; it may be used to fund dissertation research overseas.

The Helen G. Stafford Memorial Fund, established in 1974 by bequest of Helen G. Stafford, Ph.D. 1935, for the support of graduate students in history.

The Mildred Clarke Pressinger von Kienbusch Fund, established in 1977 by the Class of 1909 in honor of Mildred von Kienbusch, for the support of graduate students working toward the doctorate.

The Mildred and Carl Otto von Kienbusch Fund, established in 1977 by bequest of Carol Otto von Kienbusch, for the support of graduate students working toward the doctorate.

The Mary Waddell Fellowship Fund, which provides grants for the study of mathematics to daughter of American citizens of Canadian descent.

The Fund for the Coordination of the Sciences. Departments in the natural sciences and the Department of Mathematics administer a fund for the Coordination of the Science, given to the College in 1935 by the Carnegie Corporation of New York. Its purpose is to encourage and facilitate teaching and research in fields such as biochemistry, biophysics, geochemistry, geophysics, and psychophysics. From this fund, the Committee for the Coordination of the Sciences awards fellowships, assistantships, postdoctoral research fellowships, summer stipends for graduate students, or other grants as appropriate.

Whiting Fellowships in the Humanities, made possible through the generosity of the Mrs. Giles Whiting Foundation; Whiting Fellowships are awarded competitively to a select number of graduate students in the humanities in their final dissertation year. These fellowships provide a generous stipend and dissertation tuition, together with a modest allowance for unusual research expenses and an allowance for dependents as appropriate.

Travelling Fellowships and Awards

Recipients of awards supported partially or fully by the funds listed in the preceding section may in some instances use the awards away from the College; for example, Whiting or Richter Fellows may travel for research purposes during their fellowship year. The following awards and fellowships, however, are specifically or primarily designated for the purpose of travel or study abroad:

The Brune-Rubel Fund was established in 1973 by the estate of Eva W. Byrne, B.A. 1916, M.A. 1917, and Ph.D. 1925. The income of the estate may be used to fund one or more one-year fellowships in English, Latin, Greek, or archaeology for graduate students at Bryn Mawr for study outside the United States. Byrne-Rubel funds may also be used for graduate students in English or Latin at Bryn Mawr.

The Samuel and Lucy Chew Fund was established in 1983 by bequest of Lucy Evans Chew, A.B. 1918, to support graduate student travel for the purposes of research and study.

The Christopher Fund was founded by an anonymous donor in 1977. The income is to be used for travel costs of graduate students in classical and Near Eastern archaeology studying in the Mediterranean.

The Anna Ottendorfer Memorial Research Award in Teutonic philosophy and German language and literature, founded in 1907 by Mrs. Anna Woerishoffer in memory of her mother, is to be applied to the expense of study or research for up to one year at a German university. The deed of gift restricts this award to women students who have completed at least one year of graduate study at Bryn Mawr.

The Ella Riegel Fund for Classical Archaeology was established in 1937 by bequest of Ella Riegel. The awards are made by the Department of Classical and Near Eastern Archaeology to advanced students in that field. The awards are normally given for study abroad but at the discretion of the department may be used at Bryn Mawr College.

The Fanny Bullock Workman Travelling Fellowship for a year of study or research abroad was established in 1927 by bequest of Fanny Bullock Workman and by gift of her husband, Dr. W. Hunter Workman. It is awarded to a candidate for the degree of Doctor of Philosophy at Bryn Mawr College who could not have the advantages of such a year without assistance. The fellowship for any one year may be divided between two students, or the same student may hold the fellowship for more than one year.

In addition to the named awards described above, the Graduate School of Arts and Sciences is on occasion able to make small grants to individual graduate students to enable them to travel for the purpose of delivering papers at scholarly conferences or for limited research purposes. Proposals for such grants should be submitted, in written form, to the Dean of the Graduate School of Arts and Sciences.

Fellowships for Foreign Students

In addition to the regular Bryn Mawr College graduate fellowships, there are two special fellowship categories for non-United States citizens or students whose native language is other than English. These are one-year merit fellowships, awarded by the Committee on Graduate Awards on the basis of departmental recommendations. Farley Fellowships are rarely awarded to the same individual more than once. Special Foreign Language Fellowships may in some instances be awarded to the same individual in two successive years. Foreign students may also compete for the various forms of financial aid available to all graduate students. Both new and continuing students must submit a financial aid application for consideration each year.

The Marguerite N. Farley Fellowships provide tuition and a stipend to cover living expenses and are competitively open to students from any country outside the United States. Normally only two are awarded in any one year.

Special Foreign Language Fellowships provide tuition and a stipend to cover living expenses and are open to students whose languages form a part of the Bryn Mawr undergraduate curriculum. Languages meeting this requirement are French, German, Hebrew, Italian, Russian, and Spanish. Holders of these fellowships are asked to devote four or five hours a week to supervised teaching or other assistance in the appropriate language department. Holders of the fellowships may be working toward a graduate degree in any department. Normally only two such fellowships are awarded in any one year, rotating among the language departments in accordance with the merit of the applications. When a Special Foreign Language Fellowship is awarded in French, it is designated the Marcelle Pardé Fellowship, in memory of the Resistance heroine who was a member of the French Department of Bryn Mawr College from 1919 to 1929. When a Special Foreign Language Fellowship is awarded in Spanish, it is designated the Miguel Catalan Fellowship, in memory of the distinguished Spanish physicist and friend of Bryn Mawr.

Duties and Responsibilities of Fellows

Fellowships are awarded to enable meritorious graduate students to make substantial progress toward their advanced degrees. Fellows are required to carry a full program of academic work unless a lesser program has been approved by their department or specified in the letter of award. All Bryn Mawr College Fellows are occasionally asked to perform some small service which contributes to the graduate program.

Honorary Fellowships and Prizes

The Marion Edwards Park Fellowship, an honorary fellowship, is awarded from time to time by the Committee on Graduate Awards on the recommendation of a student's department.

The Susan B. Anthony Memorial Prize, commemorating the great work of Susan B. Anthony for women, was founded by her friend, Anna Howard Shaw, and her niece, Lucy E. Anthony. It is awarded from time to time to a graduate student at Bryn Mawr College who has published, or submitted in final form for publication, the best study dealing with the industrial, social, economic, or political position of women. The award is made by a committee of which the President of the College is chairman.

Loan Funds

The Office of Financial Aid in Taylor Hall (Director: Jerry Berenson) should be consulted about loan needs and can provide additional information concerning all of the loan programs listed here.

National Direct Student Loan Program. These loans are available to students who are United States citizens or permanent residents and who are registered for at least *four* units of graduate work. Application is made on a special form which can be obtained from the Office of Financial Aid in Taylor Hall after a student has been admitted to the Graduate School of Arts and Sciences. The application and the GAPSFAS form (see page 86) must be filed by June 1. Allocation of loan funds is made late in June.

Guaranteed State Loan Program. Students are encouraged to apply for Guaranteed State Loans, available to United States citizens or permanent residents who are studying at least half-time, through their local banks. Part of the application is completed by the Office of Financial Aid, Taylor Hall.

The Students' Loan Fund of the Alumnae Association of Bryn Mawr College was established by the Class of 1890 for the use of students who need to borrow money in order to continue their college work. The fund is managed by the Alumnae Scholarships and Loan Fund Committee. Loans may be used for purposes approved by the committee, who try to provide small loans to meet special emergencies or to help with tuition payments. As a rule, money is not lent to students in their first semester of graduate work. Not more than \$1000 may be borrowed by a student in any one year. The total for four years must not exceed \$3000. While the student is in college, no interest is charged; after the student leaves college the interest rate is modest. The entire principal must be repaid (annual payment) within five years from the time the student leaves college. Students who wish to borrow from the Loan Fund may obtain application blanks for this purpose from the Office of Admissions and Awards of the Graduate School of Arts and Sciences.

U.S. Steel Foundation Graduate-level Loan Program. The U.S. Steel Foundation has established a fund for loans to graduate students in anthropology, biology, biochemistry, chemistry, human development, geology, history, physics, political science, psychology, and sociology. Small loans may be made to cover expenses in connection with tuition, books, research equipment, living expenses, travel, summer research. Conditions are as for the Alumnae Association Loan Fund, see above. Applications are made through the Office of Financial Aid in Taylor Hall.

Campus Employment Opportunities

There are a limited number of part-time work-study employment opportunities available on campus, primarily in the library and certain offices. Application forms may be obtained in the Office of Financial Aid in Taylor Hall. Graduate students, however, may also apply for part-time campus staff positions, for which notices are posted on bulletin boards throughout the campus. The Personnel Office in Cartref can supply further information and maintains an applicant file.

Graduate student couples or single women graduate students may also wish to consult the Office of Student Services in the Campus Center (Director: Charles Heyduk) concerning service as senior residents (wardenships) in undergraduate dormitories. Selection is extremely competitive, but these positions provide tuition, room and board, and a stipend.

Career Planning Office

Graduate students are invited to make use of the services of the Career Planning Office. These services include counseling on career interests and concerns; information on specific openings for summer, temporary and permanent, full- and part-time positions; consultation on job-hunting methods. Upon request the Career Planning Office will also keep on deposit and make available to prospective employers faculty and employer references of graduate students and alumnae.

Foreign Student Adviser

The Foreign Student Adviser is located in the Student Services Office in the Campus Center. The office provides assistance with visas and general orientation.

Graduate Student Association

The Graduate Student Association is the instrument through which graduate students may voice their concerns and needs to the faculty and administration. When appropriate, the GSA also initiates and carries out specific programs to meet these needs.

Representatives of the Graduate Student Association sit on various College committees, including the Council of the Graduate School for Arts and Sciences and the committees concerned with the library and with academic computing facilities. In addition, the Graduate Student Association is represented at meetings of the Board of Trustees and at faculty meetings. The GSA also plays a role in establishing policies and procedures related to graduate housing at Glenmede.

Graduate Student Housing

Housing is available for about forty graduate students at Glenmede, the graduate resident center, which is approximately one-

half mile from the main campus. The Glenmede complex includes a main house, with fourteen single rooms and three large double rooms, and additional single rooms (and one double) in the smaller houses on the estate. The College provides basic furniture, but students must supply their own linen, bed pillows, desk lamps, rugs, and curtains.

There is no food service at Glenmede. Residents can take advantage of the kitchen facilities available in each of the buildings at Glenmede, or can purchase meal tickets, or contract for the complete meal plan for the College dining halls on campus.

Room application forms are mailed in the spring to those who have indicated interest in College housing on their admission applications. The number of rooms available varies from year to year. Once a room is assigned, a contract must be signed and returned to the Office of Student Services, Campus Center, with a deposit. The deposit will be deducted from the residence fee; it will be refunded only if the student cannot be accommodated.

A student who has reserved a room will be held responsible for the full residence charge unless notice of withdrawal is sent in writing to the Student Services Office by August 15. See the fee schedule for the current room charge, which is payable one half by the first day of classes of fall semester and one half by the first day of classes of spring semester. Residence on campus covers the period from the opening of the College in the fall until Commencement Day. Baggage will be accepted at the College after August 20. It should be sent prepaid, addressed to Glenmede, Bryn Mawr College, and marked with the owner's name.

Health

Medical Services

The College maintains an Infirmary, with in-patient and out-patient services, open during the academic year but closed in the summer. There is twenty-four hour physician and RN coverage. The medical staff may be consulted without charge by students residing in campus housing. Students living off campus pay for health services, as rendered, at a nominal fee. If special consultation or private nursing care is necessary, the student must meet the expense. The College reserves the right to require a student to withdraw, for reasons of health, upon the recommendation of the College physician.

A counseling service is available to all students. Consultation with a psychological social worker, psychologist, or psychiatrist should be arranged by appointment through the Infirmary secretary. Counselors can be reached through the Infirmary in cases of emergency. Should long-term therapy be necessary, the student is referred for outside private care.

Medical Requirements

All entering students must file medical history and evaluation forms with the Infirmary before registration for classes.

Insurance

All graduate students are strongly urged to carry health insurance. For those who need coverage, student policies are offered and should be purchased in September during the open enrollment period. Foreign students are *required* to carry health insurance valid in the United States.

Special Note

When space permits, the Infirmary offers the use of its rooms for temporary overnight stays, without meals or nursing care, for a small charge.

Laboratory School

The Phebe Anna Thorne School

Situated on the Bryn Mawr campus and integral to the Department of Human Development, the Thorne School is a laboratory school which enrolls three- and four-year-olds from nearby communities in creative, pre-kindergarten programs. The school has for its aim the fullest and happiest development of each child within the context of a group and offers morning and extended day sessions Monday through Friday, September to July. For fees and information, write to or telephone the Director, The Phebe Anna Thorne School, Bryn Mawr College, Wyndon and Roberts Road, Bryn Mawr, PA 19010, (215) 527-5490.

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By Car

From the Pennsylvania Turnpike

Take Exit 24 (Valley Forge Interchange) and follow signs to Route 76-East (Expressway to Philadelphia). Take Exit 202 North to South Gulph Road (1st intersection); go right on South Gulph (which becomes Route 320). Go approximately seven miles on this road which becomes Montgomery Avenue (do not turn off when 320 goes right). After about seven miles look for the intersection with Morris Avenue. Turn left on Morris; the parking lot is on the left just past Yarrow.

From the New Jersey Turnpike

If approaching from north of Philadelphia, leave the New Jersey Turnpike at Exit 6 (Pennsylvania Turnpike) and drive west on the Pennsylvania Turnpike to Exit 24 (Valley Forge Interchange). From there proceed as advised above.

If approaching from south of Philadelphia, leave the New Jersey Turnpike at Exit 3 (Woodbury-South Camden) and follow Walt Whitman Bridge signs onto Route 168-North. Travel one mile, following signs to Route 295-South. Take 295-South for one mile. Bear left to join Route 76-West, still following Walt Whitman Bridge signs. Take Route 76 across the bridge following Route 76-West signs. As the expressway reaches downtown Philadelphia follow signs to Valley Forge. Take the City Avenue Exit (Route 1-South). Once on City Avenue, travel about two and one-half miles and turn right onto Lancaster Avenue (Route 30-West). Then travel four or so miles to reach the center of Bryn Mawr. Then right onto Morris Avenue (there is an Arco gas station on the right corner). Follow Morris under the train bridge and across Montgomery Avenue. Continue one and one-half blocks past Montgomery and turn left into the College parking lot.

By Train

From either Philadelphia's Suburban Station or its 30th Street Station, take SEPTA's Paoli Local or Bryn Mawr Local (19-17 minute ride). The trains run from 6:15 a.m. until 12:15 a.m. weekdays and from 7:15 a.m. until 12:15 a.m. weekends. From the Bryn Mawr station, walk east (straight ahead as you get off the train) two blocks and turn left on Yarrow Road. The College stretches to your right and straight ahead. Or make use of the Bennett Taxi Service by calling on the direct line phone located on the train platform.

By Air

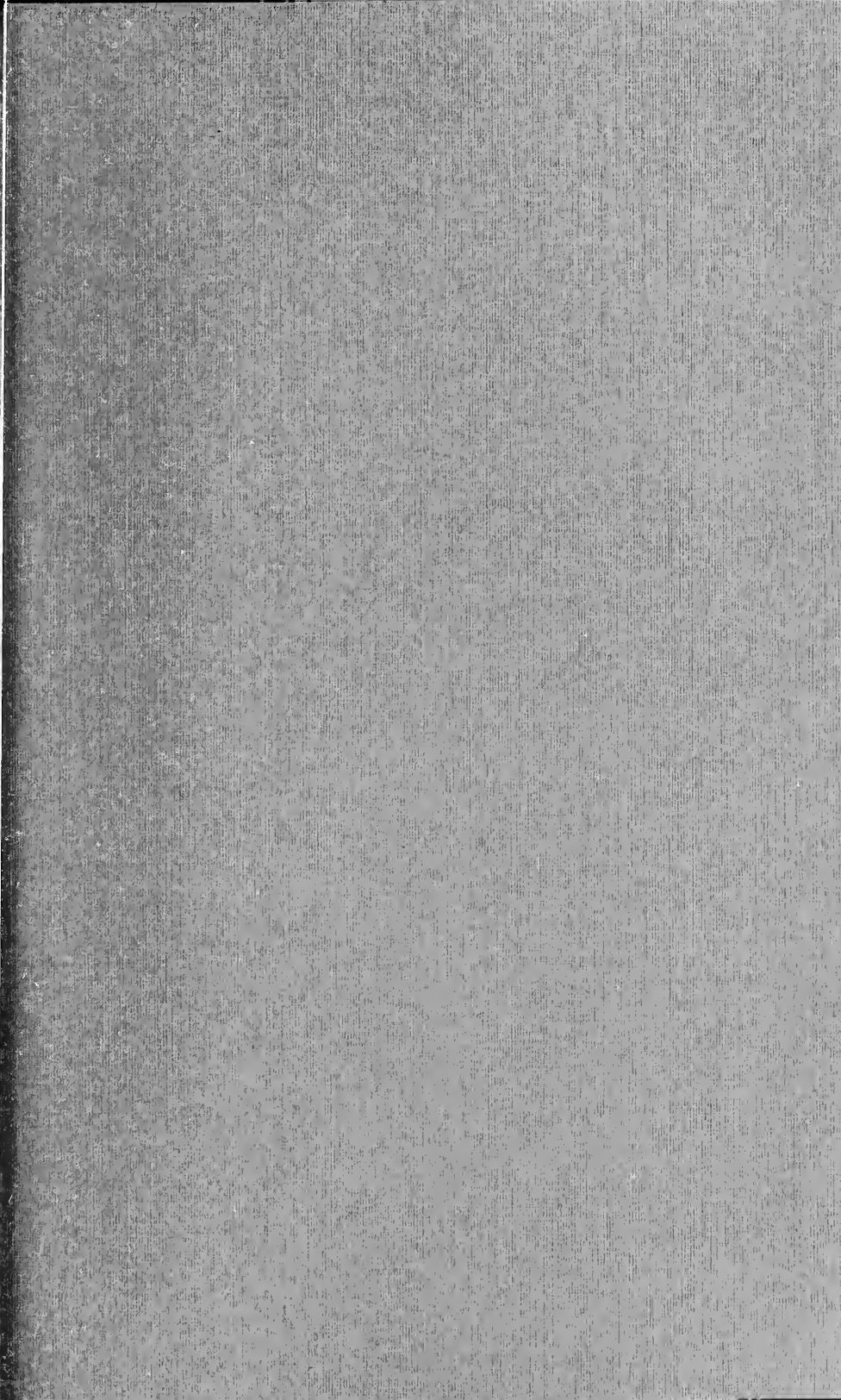
From Philadelphia International Airport, take the Bennett Airport Limousine to the Bryn Mawr Campus (35 to 45 minute ride) or the Yellow Airport Limousine to either Suburban or 30th Street Stations and use the SEPTA train service to Bryn Mawr. Bennett limousines operate from 7 a.m. until 11:30 p.m. daily; Yellow Airport limousines operate on a 24-hour basis. Both services have dispatchers on duty at all baggage claim areas.

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